FLORIDA STATE UNIVERSITY

2020–2021

GENERAL BULLETIN

UNDERGRADUATE EDITION

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PRESIDENT'S MESSAGE

Florida State University is world-renowned for the quality of its faculty, academic programs and strong focus on career success producing graduates who are critical thinkers, innovators, and leaders.

Designated as a pre-eminent university by the Florida Legislature in 2013 for meeting rigorous standards of achievement, FSU now ranks among the nation's Top 20 public universities and is the fastest rising public institution in the nation.

From its excellence in the sciences, arts and humanities, to its service-learning mission, an entrepreneurial culture, championship athletics and a prime location in the heart of the state capital, Florida State is widely known for offering an outstanding academic environment.

Located on Florida's oldest continuous site of higher education, FSU is proud of its rich heritage and core values that champion excellence at every level. Building on its unique strengths, it is a recognized model for student success, distinctively providing academic rigor and an amazing array of research, creative efforts and engagement opportunities to students in a personal and caring atmosphere.

FSU students are among the nation's best and brightest. They graduate at the highest rate found at any university in Florida, 72 percent in four years, a rate that ranks among the Top 10 nationally. An outstanding student-faculty ratio combined with a student-centered approach ensures every student receives a world-class education. FSU has eliminated disparities in its diverse student population and is now the largest and most diverse university in the country with an experiential learning requirement before graduation.

The University is creating a culture across all academic disciplines that embraces entrepreneurship, interdisciplinary learning and creativity. Through the largest private gift to a public university in Florida — $100 million — Florida State has established the Jim Moran College of Entrepreneurship, the first degree-granting college of its kind in the nation.

Our Student Veterans Center and programs designed to aid student-veterans' transition to academic life, our Honors Scholars and Fellows House, Office of National Fellowships and Center for Undergraduate Research and Academic Engagement (CRE) are all examples of our strong commitment to help our more than 42,000 students reach their highest academic goals.

As evidence of their success, the University's Garnet and Gold Scholar Society awards undergraduates a credential affirming their leadership and professional, citizenship, and research skills, demonstrating their ability to build collaborative relationships in the academic, local, or global community.

With many of our colleges ranked among the country's best, we stand firmly among the nation's top public universities. Led by a world-renowned faculty that has included six Nobel laureates; numerous eminent scholars in the arts and sciences; Tony, Oscar, Emmy, and Pulitzer award winners, our academic programs continue to receive major recognition for their quality and overall strength.

Florida State University's 17 colleges and its Graduate School offer more than 295 undergraduate, graduate, doctoral, professional, and specialist degree programs, including medicine and law, covering a broad array of disciplines critical to society today. Each year the University awards approximately 3,000 graduate and professional degrees.

With its impressive breadth of leading graduate, professional, and undergraduate programs, Florida State University is a demanding, intellectually stimulating, yet warm and caring environment for students and faculty. Recognized nationally for its commitment to diversity, Florida State has been named by the Institute for Higher Education Policy as one of the top 10 institutions in the nation for its outstanding efforts to improve access and support and educate traditionally underrepresented students.

Florida State's arts programs — dance, film, interior design, music, and theatre — are among the finest in the world, offering an arts education comparable to leading conservatories. Our creative writing program is ranked among the nation's best and is home to the most consistently honored and published student body in the country. Florida State is responsible for governance of the John and Mable Ringling Museum of Art and associated arts programs, one of the largest museum/university complexes in the nation.

Other nationally recognized top programs include physics, chemistry, psychology, criminology, public administration, library science, information, education, business and law.

At the doctoral level, interdisciplinary programs draw on notable research faculty strengths that transcend the traditional disciplines, including neuroscience, molecular biophysics, computational science, materials science and research at the National High Magnetic Field Laboratory — home to the world's most powerful magnets.

Our excellence shines beyond traditional academic settings. Located in countries throughout the world, our international programs are unparalleled. In the area of athletics, our scholar-athletes continue to perform at championship levels on and off the field, and their hard work and dedication add to this University's outstanding reputation. Our students supplement their academic pursuits each year with hundreds of thousands of hours of community-service outside of the classroom. In immeasurable ways, the University reaches out to our community, region, state, and nation. This level of service has been recognized by the Carnegie Foundation, which has selected Florida State for inclusion in its prestigious Community Engagement classification.

With a dedicated faculty and staff, a commitment to strong graduate and undergraduate programs that prepare students well for the marketplace, and a powerful research agenda that contributes to the nation's economic well-being and quality of life, Florida State University is living proof of what it means to be an exciting leader in higher education. I hope that, as you become a part of our community, you will join us in our continuing pursuit of excellence. Be Living Proof.

UNIVERSITY NOTICES

President's Statement on Equal Opportunity and Non-Discrimination

Florida State University is an equal opportunity employer and educational provider committed to a policy of non-discrimination for any member of the University's community on the basis of race, creed, color, sex, religion, national origin, age, disability, genetic information, veterans' status, marital status, sexual orientation, gender identity, gender expression, or any other legally protected group status. This policy applies to faculty, staff, students, volunteers, visitors, applicants, and contractors in a manner consistent with applicable laws, regulations, ordinances, orders, and University policies, procedures, and processes.

In pursuing its mission of excellence as a comprehensive, graduate-research university with a liberal arts base, the University strives to create and maintain a harmonious, high performance work and educational environment. Conduct that discriminates, harasses, or intimidates by threat, is contrary to our commitment. Further, workplace behavior that is disruptive to the operations of the University or that impairs workplace discipline interferes with this mission.

It is my expectation that all members of our community are provided equitable opportunities to succeed and enrich the strength, skill, and character of the University. It is also expected that all members of our community will help create a work and educational environment that promotes fairness, respect, and trust, free from discrimination, harassment, or retaliation.

The University will continue to reinforce its commitment of non-discrimination to all groups protected by local, state, and federal law. We will continue to monitor our methods of recruitment, retention, and advancement of qualified faculty, staff, and students and annually examine our affirmative action plan, as prescribed by federal guidelines, to measure whether our campus is reflective of the community we serve.

The University further recognizes that discriminatory or harassing behavior may create an intimidating or hostile environment that interferes with the University's mission. As a result, the University has established internal complaint procedures available to all who believe their experience on any of our campuses has been less than appropriate.

To facilitate University-wide compliance, I have appointed Renisha Gibbs, Associate Vice President for Human Resources/Finance and Administration Chief of Staff, to develop, administer, and coordinate University-wide initiatives and complaint investigations. This will be accomplished through collaboration with the Title IX Director; Dean of Students Department; the Office of Faculty Development and Advancement; the Athletics Department; and all University divisions, colleges, and departments.

Questions regarding the above may be directed to your supervisor or Renisha Gibbs at *(850) 644-8082* or *rgibbs@fsu.edu*. To view the University's Equal Opportunity, Non-Discrimination, and Non-Retaliation Policy in its entirety, go to *http://policies.vpfa.fsu.edu/policies-and-procedures/faculty-staff/equal-opportunity-and-compliance-eoc#I3*.

President's Statement on Title IX

"No person in the United States, shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity receiving Federal financial assistance." Title IX of the Education Amendments of 1972, and its implementing regulation at 34 C.F.R. Part 106 (Title IX).

Florida State University does not discriminate on the basis of sex/gender in education programs and activities, and, as a recipient of Federal financial assistance for education activities, is required by Title IX to ensure that all of its education programs and activities do not discriminate in such a manner. Sexual harassment, which includes acts of sexual violence, is a form of sex discrimination prohibited by Title IX. Additionally, the Florida Educational Equity Act prohibits discrimination in schools based on race, ethnicity, national origin, gender, disability, or marital status. Fla. Stat. § 1000.05 (2012). Furthermore, this commitment is reaffirmed in FSU's *Sex Discrimination and Sexual Misconduct Policy*, which is applicable to all faculty, staff, students, visitors, applicants, and contractors.

The University's Title IX Director is responsible for overseeing the development of sexual misconduct policies, ensuring compliance with Title IX and relevant federal and state regulations, and investigating Title IX complaints alleging **student** sexual misconduct. The Human Resources Deputy Coordinator will oversee investigations of sexual misconduct by **employees and third parties.** The Athletics Deputy Coordinator will accept Title IX incident reports to forward to the Title IX Director, and will ensure athletics equity compliance. The FSUS Deputy Coordinator will oversee investigations of sexual misconduct by **K-12 students.** Questions regarding Title IX, as well as concerns about and complaints of non-compliance (including complaints of sexual harassment, sexual assault, sexual violence, or other sexual misconduct), should be directed to the Title IX Director or a Title IX Deputy Coordinator.

Title IX Director:

Tricia Buchholz

Title IX Director

408-H Westcott

222 Copeland St.

Tallahassee, FL 32306-1310

tbuchholz@fsu.edu

(850) 644-6271

Title IX Deputy Coordinators:

Employees & 3rd Parties:

Amber Wagner

Deputy Coordinator

EOC Compliance Investigator

Office of Equal Opportunity & Compliance

A6200 University Center,

Tallahassee, FL 32306-2410

amwagner@fsu.edu

(850) 645-1458

Athletics:

Vanessa Fuchs

Deputy Coordinator

Sr. Associate Athletics Director, Athletics Admin.

D4200 University Center,

Tallahassee, FL 32306-2343

vfuchs@fsu.edu

(850) 644-4933

Florida State University School (FSUS):

Jason Graham

Deputy Coordinator

3000 School House Road

Tallahassee, FL 32311

jmgraham@fsu.edu

(850) 245-3782

Complaints will be addressed following the University's discrimination complaint procedures, *Equal Opportunity, Non-Discrimination, and Non-Retaliation Policy and Procedures* and the *Student Conduct Code*. Some acts of sexual misconduct may also constitute violations of criminal law and require mandatory reporting to the FSU Police Department, e.g., sexual battery, indecent exposure, sexual abuse, etc. In such instances, refer to the University's Sex Discrimination and Sexual Misconduct Policy and contact the FSU Police Department at *(850) 644-1234*. Questions about the application of Title IX may also be directed to the Office for Civil Rights, US Department of Education.

Title IX Frequently Asked Questions: For an expanded explanation of each answer, please follow the link.

What is Sexual Misconduct?

An umbrella term used to refer to a broad range of sexually inappropriate behaviors prohibited by Florida State University Policy. Sexual Misconduct includes all forms of non-consensual sexual activity and unwelcome sexual conduct including: sexual violence (rape/sexual battery/sexual assault); relationship violence (domestic violence and dating violence); stalking; sex- and gender-based discrimination (including gender identity, gender expression, and sexual orientation); sexual harassment; and other forms of sexually exploitative behavior. For definitions of sexual misconduct, please see Appendix D of the full *Policy*.

Is discrimination based on pregnancy or parental status a type of sex discrimination?

Yes. Additionally, reasonable pregnancy and parental accommodations may be available, upon request. For information contact the *Office of Equal Opportunity and Compliance*.

Who is protected from sexual misconduct under Title IX?

All University students, employees, and visitors are protected. This protection is regardless of gender, sexual orientation, sexual identity, race, religion, national origin, and any other protected group status. Students from elementary to graduate school are protected, regardless of full- or part-time or online status.

What is Consent?

Consent is active and ongoing, it is not passive or static! (See Appendix D of the *Policy* for the full definition) Consent includes:

- Asking the question of a capable person with adequate disclosure and without coercion.
- A capable person is someone who is not incapacitated. An individual can be incapacitated by drugs, alcohol, illness, or mental impairment/disability. People who are asleep or unconscious are always incapacitated.
- Consent can be withdrawn at any time.
- Prior consent does not mean future consent.

How do I get confidential support?

You can seek confidential support from the University's *Victim Advocate Program*, *University Counseling Center*, *Employee Assistance Program*, *University Health Center*, or University affiliated pastoral counselors.

Confidential disclosure does not generate a Title IX report or criminal report, unless the disclosing party specifically requests that a report be filed. Confidential assistance is available any time regardless of when the incident occurred. Additional resources can be found within the full *Policy*.

How do I file a report?

Individuals may report information on their own behalf or on behalf of another. A report may be made, verbally or in writing (including online) by bringing the matter to the attention of: Title IX Director; Deputy Title IX Coordinators; FSUPD; or any additional Responsible Employees. There is no time limit for an Affected Party to make a Title IX report, but it may be more difficult to conduct a thorough investigation after an extended period of time. See Section IX of the full *Policy*.

Can I file a report online?

Yes, via *http://report.fsu.edu* or *http://fsu.ethicspoint.com*.

Who MUST report sexual misconduct?

All Responsible Employees, including but not limited to faculty, adjuncts, staff, graduate assistants, and student employees. As a responsible employee, you **must** report any student or subordinate disclosure within two business days. When in doubt, report to the Title IX Director; privacy will be maintained within the scope of the law. Note: Employees and students are encouraged to report peer-to-peer (colleague-to-colleague or student-to-student) disclosure, but are not required to do so.

What do I do if a student discloses to me?

If you are a Responsible Employee, you must report to the Title IX Director, Deputy Title IX Coordinators, or Title IX Investigators. If not a Responsible Employee, you should encourage the student to seek support services. See Appendix E of the full *Policy*.

What if the student who discloses is a minor (or was a minor when the abuse occurred)?

In addition to reporting to the Title IX Director or designee, any incidents of abuse of a minor must also be reported to the Florida Department of Children and Families (DCF) by every individual who is made aware of the abuse. Under Florida's Protection of Vulnerable Persons Act, all Florida residents must personally report any type of child abuse. For more information, please see *Protection of Vulnerable Persons Act Tips*.

What is the difference between a criminal and FSU/FSUS process?

Individuals have the right to pursue both the criminal and internal University processes. They can be pursued independently or simultaneously. We encourage individuals to pursue both processes. The criminal process is conducted by local law enforcement and the state prosecutor's office. The criminal process can result in incarceration and the evidentiary standard is beyond a reasonable doubt. The internal University investigation is overseen by the University Title IX Director. If appropriate, the University will implement interim measures and University sanctioning; the evidentiary standard is preponderance of the evidence.

What happens after a report is made to the Title IX Office?

The University will take appropriate measures to investigate, eliminate the inappropriate conduct, address its effects, and prevent reoccurrence. Whenever possible the Reporting Party's request to the Title IX Director for confidentiality will be maintained. The request for confidentiality must be made to the Title IX Director or designee. Additional information about what happens after disclosure can be found within Sections VIII-XI of the full *Policy*.

What are the rights of the Reporting Parties and Responding Parties?

The rights of both parties during the investigation and adjudication process include a fair, impartial and prompt investigation and resolution of the allegations. For more information see Reporting Party's / Responding Party's Rights, see Appendix H and I of the full *Policy*.

What is retaliation?

Retaliation is any creation of a hostile environment or adverse action threatened or taken against an individual because they:

- make a Report pursuant to this Policy;
- assist another person in making a Report;
- participate in the investigation of such a Report;
- or in good faith and in a reasonable manner oppose conduct that they believe constitutes a violation of this *Policy*.

What do I do if I think someone is retaliating against me?

Report the retaliation immediately to the Title IX Director, a Deputy Title IX Coordinator, a Title IX Investigator and/or the FSUPD.

What could happen if I or someone I know retaliates?

You, or they, could face a charge of retaliation in addition to any charges of sexual misconduct.

What is complicity?

Complicity is any action or behavior done with the intent of aiding, facilitating, promoting or encouraging the commission of an act of Sex Discrimination or Sexual Misconduct.

Where can I get more information?

- *Policy & Appendices*
- *Rights and Resources*
- *kNOw More Campaign*
- *FSU's Title IX Website*
- *Office of Equal Opportunity & Compliance*
- *FSU Police Department*
- *Victim Advocate Program*
- *University Counseling Center*
- *University Health Services*

It is my expectation that all members of our community are provided equitable opportunities to succeed and enrich the strength, skill, and character of the University. It is also expected that all members of our community will help create a work and educational environment that promotes fairness, respect, and trust, free from discrimination, harassment, or retaliation. Behavior that may be considered offensive, demeaning, or degrading to persons or groups will not be tolerated.

Conflicts of Interest

The following policy concerning conflicts of interest applies to graduate students who are being supervised or evaluated by faculty as well as graduate students who are serving as teaching assistants and thus supervising or evaluating undergraduates.

Sexual relationships between faculty members/graduate assistants and students where a direct supervisory or evaluative relationship exists are fraught with the potential for exploitation. The respect and trust accorded a faculty member/graduate assistant by a student, as well as the power exercised by the faculty member/graduate assistant in a direct supervisory or evaluative

role, make voluntary consent by the student suspect. In their relationships with students, faculty members/graduate assistants are expected to be aware of their professional responsibilities and to avoid conflict of interest, favoritism, or bias.

1. When any direct supervisory or evaluative role exists, a consensual sexual relationship between a student and a faculty member/graduate assistant is a conflict of interest.
2. Any situation of direct supervision or evaluation will be ended immediately when a consensual sexual relationship between a student and a faculty member/graduate assistant exists.
3. Any such relationship must be disclosed to the faculty member/graduate assistant's supervisor immediately.
4. Direct supervision includes any type of evaluative role. Examples of direct supervision of the student include teaching the student's class, serving as a thesis or dissertation director, instructor of record, member of the student's thesis or dissertation committee, member of the student's comprehensive or doctoral exam committee, member of other committees where the focus is evaluation or supervision of the student's academic competence or the student's assistantship.

Individuals with Disabilities

Florida State University adheres to *Section 504 of the Rehabilitation Act* of 1973 and the *Americans with Disabilities Act* of 1990 (ADA), as amended by the *Americans with Disabilities Amendments Act* of 2008, in prohibiting discrimination against any qualified individual with a disability. Any student with a disability may voluntarily self-report the nature of the disability and identify needed accommodations to the Student Disability Resource Center, call *(850) 644-9566*. Florida State University's 504 Coordinator is:

Jennifer Mitchell, Director, Student Disability Resource Center
874 Traditions Way (108 Student Services Building)
Phone: *(850) 644-9566*/TDD *(850) 644-8504*
E-mail: *jmitchell2@fsu.edu*
Web site: *http://dos.fsu.edu/sdrc/*

To request reasonable accommodations for employment or visitors, please contact the Florida State University Human Resources/Office of Equal Opportunity and Compliance, located at *University Center, Bldg. A, Suite 6200*, or call *(850) 645-6519*, or view the applicable policy and procedures at *http://policies.vpfa.fsu.edu/policies-and-procedures/faculty-staff/equal-opportunity-and-compliance-eoc#I1*.

HIV/AIDS Policy

Students, employees, and applicants for admission or employment at Florida State University who have or who may become infected with HIV will not be excluded from enrollment or employment or restricted in their normal responsibilities and access to University services or facilities due to their HIV/AIDS status, unless individual medically based judgments establish that exclusion or restriction is necessary for the welfare of the individual or of other members of the University community. That is, the University will not discriminate against otherwise qualified HIV-infected applicants, students, or employees.

University Health Services is responsible for monitoring developments with regard to HIV/AIDS, acting upon and administering the policies of the Florida Department of Education Division of Colleges and Universities and the University concerning HIV/AIDS and coordinating the University's efforts in educating the University community on the nature and prevention of the disease.

The University will be guided in its implementation of this policy by current authoritative medical information, applicable federal and state law, Florida Department of Education Division of Colleges and Universities' HIV/AIDS Policy, and the guidelines suggested by the Centers for Disease Control, the Public Health Service, the American College Health Association, and the Florida Department of Health.

Florida State University has designated HIV counselors who are available for FSU students. Counselors are located at University Health Services *(850) 644-4567*. Confidential HIV testing is available for students at University Health Services. Any interested individuals should call *(850) 644-4567* to schedule an appointment.

Florida State University Statement for Students on the Unlawful Possession, Use, or Distribution of Illicit Drugs and Alcohol

Florida State University Alcohol Policy

Introduction

Florida State University affirms the guiding ethical principle of responsible freedom. Students, staff, and faculty are expected to show respect for order, ethical conduct, and the rights of others, and to model in daily living a high sense of personal honor and integrity. Florida State University neither encourages nor condemns the legal consumption of alcoholic beverages. The University recognizes, however, that the majority of undergraduate students are below the legal drinking age and that there are serious health risks and behavior problems associated with the use of alcohol in the collegiate environment. Consequently, alcohol will be permitted at Florida State University or programs sponsored by Florida State University or its direct support organizations only in those settings which:

1. Comply with federal or state laws, local ordinances, University regulations, foreign country laws (in the case of study abroad programs conducted by Florida State University International Programs, Inc.), Student Conduct Code, and this policy;
2. Present minimal health and safety risks; and
3. In no way inhibit the full participation of those who choose not to drink alcohol.

Events and activities that encourage excessive drinking and/or lead to the endangerment of individuals will not be permitted. Any person or group in violation of federal or state laws, local ordinances, or of this policy will be reported to the proper federal, state, local or university authorities for appropriate action.

I. **Policy Pertaining to All Members, Groups, Events, and Organizations in the University Community and Non-University Members, Groups, Events, and Organizations.**

(a) No individual under the legal drinking age (minimum of 21 years of age permitted by the State of Florida or the minimum age prescribed by the laws of foreign countries, but in no case below the age of 18 years of age) may serve, sell, consume or possess alcohol on University properties, except to the extent allowed by law within licensed premises or designated areas of the University.

(b) Alcohol must be served by a licensed and insured third party vendor. No individual may serve or otherwise provide alcohol to persons under the legal drinking age.

(c) The Consumption of Alcohol: The consumption of alcohol on University properties will be restricted to the following areas:

1. Florida State University Law School Rotunda;
2. Licensed areas of the university (e.g., Center for Professional Development, Club Downunder, Crenshaw Lanes, Renegade Grill);
3. Academic food service facilities;
4. University Center areas include:
   i. Skyboxes
   ii. Miller Hall (C3300, UC)
   iii. President's Box (Level 7, UC)
   iv. Booster/Alumni Board Rooms (C5300, C5301 UC)
   v. University Club (Building B, Floor 3, UC)
   vi. Meeting Rooms (Building B, Floors 5 & 6, UC)
5. Lounges in Beth Moor at Longmire Building;
6. WFSU-TV and Radio Broadcast Center;
7. Premises in and around President's house, Pearl Tyner Alumni Center, and surrounding grounds;
8. University property not located on the main campus, which has been leased by the University to private entities or persons, referred to in this rule as "private premises," such as Heritage Grove;
9. Private University living quarters where those present are of legal drinking age (see the Guide to Residence Living, Community Expectations, for further restrictions that may apply in residence halls; or in the case of living quarters provided for study abroad programs, see policies promulgated by Florida State University International Programs Association, Inc.);

10. Premises in Doak Campbell Stadium area used or licensed for use on football game days;
11. At the following sites, when provided in conjunction with an artistic or municipal event:
    i. The Fine Arts Gallery;
    ii. The reception/hospitality room in the Opperman Music Hall;
    iii. The Fine Arts Building; and the
    iv. FSU Lab Theater.
12. Werkmeister Reading Room (201 Dodd Hall);
13. In common areas for special events approved by the University President or his/her designee. For faculty, the designee is the Vice President for Faculty Development and Advancement, for student groups, the designee is the Vice President for Student Affairs, and for all other groups the designee is the Vice President for University Relations.

(d) The Sale of Alcohol: The sale of alcohol on campus must be approved by the President or designee. Although the President or designee may approve the sale of alcohol on campus, only the Division of Alcoholic Beverages and Tobacco can issue the permit required to sell alcohol in the state of Florida.

(e) Promotional Guidelines: The promotion of activities or events shall not advertise alcohol or sponsorship by alcohol marketers without prior written approval of the Vice President for University Relations. Events that seek advertising approval must meet the following requirements:

1. Alcohol shall not be used as an inducement to participate in a University event and may not be offered as a prize or gift in any form of contest, drawing or competition. Social events which encourage drinking, drinking contests, or drunkenness, and the advertisement of such events, are prohibited.
2. Alcohol advertising on campus or in campus media, including that which promotes events as well as product advertising, shall not portray drinking as a solution to personal or academic problems of students or as an enhancement to social, sexual, or academic status.
3. Advertising for any University event where alcoholic beverages are served shall mention the availability of non-alcoholic beverages as prominently as alcoholic beverages.
4. Promotional materials, including advertising for any University event, shall not make reference to the amount of alcoholic beverages available. This includes references to kegs or open bars.
5. Must adhere to University posting policy guidelines.

(f) Florida State University Police shall be notified of all on campus events that are not regularly scheduled that plan to serve alcohol.

(g) Laws and Regulations: All members of the campus community (students, faculty, staff, alumni, and guests) must adhere to all applicable federal or state laws, local ordinances, and University regulations related to the sale and use of alcohol. They include, but are not limited to the following:

1. It is unlawful for any person to aid or abet an underage person, as defined by Section 1 (a), in the purchase or attempt to obtain alcoholic beverages.
2. It is unlawful for any underage person to falsify a driver's license or other identification document in order to obtain or attempt to obtain alcoholic beverages.
3. It is unlawful for any person to permit use of his/her driver's license or any other identification document by an underage person to purchase or attempt to purchase alcoholic beverages.
4. No person may bring any type of alcoholic beverage into a licensed facility or area, nor may any person take alcoholic beverages out of the licensed facility or area, except that a bottle of wine purchased, but not fully consumed, at the University Center Club or similar restaurant establishment on campus may be removed by the person after it has been recorked as allowed by law.
5. Transportation of all alcoholic beverages on campus shall be in unopened and unobservable containers.
6. Damage to or destruction of property, or injury to person(s), which is caused by or can be shown to be related to the consumption of alcohol will be subject to disciplinary action, as will any other violation of this rule.

II. **Guidelines for University Sponsored Events.**

Definition: Large public and formal events where the University acts in symbolic ways to honor, celebrate, and reward achievements central to its mission (e.g., graduation, convocation, dedications, awards, ceremonies). These events convey important values about what is central to the University. Florida State University is concerned with the image conveyed when alcohol service is included as part of these events.

All University Sponsored Events are subject to the guidelines outlined in Section I of the alcohol policy. In addition, the following restrictions apply;

(a) Alcohol will not be served at any reception or other function, as defined above, sponsored by the University or taking place on the University campus where attendance is essentially open to the public and is not controlled by such means as individual invitation, registration, reservation and/or a fee payment process.

(b) At those functions where attendance will be predominately alumni and friends of the University, and controlled by individual invitation, registration, reservation, or a fee payment process, alcoholic beverages may be served with the following restrictions:

1. All persons will be required to show identification, including birth date, to ensure that they are a minimum of 21 years of age in the state of Florida;
2. The right to refuse to serve anyone who seems to be in danger of over consumption will be reserved and used; and
3. An ample supply and variety of food and non-alcoholic beverages will be available.

(c) At University sponsored functions where attendance will be predominately students, no alcoholic beverages will be served, regardless of the degree of control exercised over attendance.

III. **Guidelines for University Related Events.**

Definition: Any organization or group, consisting primarily of Florida State University students, employees, faculty or alumni, and/or which utilizes the Florida State University name or its premises, in which alcohol is served, must adhere to the following guidelines. These guidelines apply to all student organizations, whether or not they have received formal recognition or not.

All University Related Events, on or off campus, are subject to the guidelines outlined in Section I of the alcohol policy. In addition, the following apply;

(a) Sponsors are required to provide one or more alternative non-alcoholic beverage available in sufficient quantity throughout the event.

(b) Non-alcoholic beverages must be available at the same place as the alcoholic beverages and featured as prominently as the alcoholic beverages.

(c) If the alcoholic beverage is being sold, the alternative beverage should be available at a price equal to or less than the price of the alcohol being provided.

(d) Wherever alcohol is present, food must also be in sufficient quantity throughout the event.

(e) The cost of admission to an event may not include or cover the cost of alcoholic beverages.

(f) No state appropriated, federal funds or A & S fees may be used to purchase or sell alcohol.

(g) The burden of proof for showing legal age is placed upon the person desiring alcohol service. No service will be provided unless clear evidence of legal age is presented. Those of legal age and consuming alcohol will be identified by wrist bands, hand stamps, etc.

(h) It is the responsibility of the serving establishment, at the time that an alcoholic beverage is requested, to check the picture ID. If, for any reason, proof of legal drinking age cannot be provided upon request, it is the responsibility of the server to deny the request.

(i) At social functions where alcoholic beverages are served, direct access should be limited to a person(s) designated as the server(s) by a licensed insured vendor. Servers must not consume alcohol during the event.

(j) The server shall refuse to serve anyone who seems to be in danger of over consumption will be reserved and used.

Any organization found not to be in compliance with the University alcohol policy at their event may be subject to University disciplinary action and may forfeit its right to any fee support from the University.

IV. **Tailgate Events.**

Definition: Gatherings occurring in the designated parking areas surrounding the area of Doak Campbell Stadium prior to and after scheduled football games.

(a) Florida State University does not support or condemn the consumption of alcohol by individuals 21 years of age or older at tailgate events.

(b) Florida State University does not condone any act related to excessive consumption of alcohol that impairs, interferes, or endangers the safety or enjoyment of anyone attending these events, including the individual who chooses to consume alcohol.

(c) Individuals who choose to consume alcohol are responsible for their behavior and should not operate a motor vehicle after they have consumed alcohol.

V. **Administration and Enforcement of Policy.**

(a) The Vice President for Faculty Development and Advancement is the responsible University official for administration of the alcohol policy for all events involving primarily faculty. The Vice President for Student Affairs is the responsible administrator for students and student groups. The Vice President for University Relations is the responsible University official for administration of the alcohol policy for events managed by the direct support organizations and for those involving all other groups and individuals. Changes and revisions shall be coordinated by the Vice President for Student Affairs in consultation with other Vice Presidents and the General Counsel, subject to final approval of the President of the University.

(b) Enforcement of the alcohol policy shall reside in the Office of Student Rights and Responsibilities for individual student and student organization cases, and the Office of Faculty Development and Advancement for faculty related violations. Enforcement of the alcohol policy for all other groups, including outside groups, organizations, and individuals shall reside in the Vice President for University Relations.

(c) The University maintains the right to forward possible violations of federal or state laws, local ordinances, and University regulations, to the proper authorities through the Florida State University Police Department.

VI. **Health Risks.**

Alcohol consumption may cause a number of changes in behavior which are related to dose, rate of intake, body size and percentage of body fluid, expectations, social environment, physical conditions (disease or, more commonly, hormonal cycles can be factors), enzyme differences, and concentration of alcohol in a drink. It may increase aggressiveness, lower inhibitions, cloud judgment, reduce resistance, and hamper the ability to make decisions.

Alcohol first affects the area of the brain responsible for higher functions, such as decision-making and social inhibitions, suppressing an individual's self-control. Alcohol in the blood can slow reaction time, reduce muscle coordination and impair eyesight, contributing to deficits in performance, judgment, memory, and motor skills. Even low doses can significantly impair the judgment and coordination required to drive a car safely. Florida State University reiterates that no one should ever drink alcohol and drive. The designated driver should never drink alcohol.

Moderate to high doses of alcohol may cause marked impairments in higher mental functions, altering a person's ability to learn and remember information. Very high doses cause respiratory depression and death. If combined with other depressants of the central nervous system, much lower doses of alcohol may produce the effects just described above.

VII. **Educational Resources and Support.**

In support of responsible management of alcohol, the University provides numerous resources and support services available to students, faculty, and staff of Florida State University, including alcohol education, counseling, treatment, rehabilitation, re-entry, prevention, and intervention, as well as other educational programs and volunteer opportunities. Below are just a few of these resources and services.

Services

(a) The University Counseling Center (UCC) provides a structured two-session Alcohol and Other Drug (AOD) Evaluation for students who are sanctioned by the University for violations of the University's alcohol and drug policy. In addition to mandated AOD sessions, AOD Evaluations are available on a voluntary basis to all FSU students. Following the AOD Evaluation sessions, a recommendation is made to the student regarding need for counseling treatment. Counseling treatment is provided to students on a voluntary basis only. Any fee-paying student currently enrolled at Florida State University is eligible for services at the UCC. Please contact the University Counseling Center for a current fee schedule [644-2003; Web site is http://www.counseling.fsu.edu].

(b) FSU Police Department [644-1234; Web site is http://www.police.fsu.edu/].

(c) Office of Residence Life [644-2860; Web site is http://housing.fsu.edu/].

(d) The Employee Assistance Program (EAP) at Florida State University was established to assist employees with behavioral, medical and substance abuse problems affecting employment. Employees can enter the program through a self-referral or supervisory referral. The EAP functions as a coordinator of counseling and other appropriate services available both within the University and the community [644-2288; Web site is http://www.eap.fsu.edu].

(e) Counseling services are also provided for students, staff, faculty, and the community by the Center for Couple & Family Therapy (CCFT), which fees are based on annual income [644-1588; Web site is http://ccft.fsu.edu/].

(f) The Human Services Center is a training clinic within the College of Education. Counselors are graduate students with counseling majors who offer service for students, staff, faculty, and the community. Services are free [644-3857; Web site is http://education.fsu.edu/centers-institutes/human-services-center-hsc].

(g) The Psychology Clinic is also a training clinic. Counselors are graduate students in clinic psychology programs. They provide one-on-one psychology services (no support groups) to students, staff, faculty, and the community. Fees are based on a sliding scale [644-3006; Web site is http://www.psy.fsu.edu/community/clinic].

(h) Helpline 211 is a telephone counseling and referral service for short term counseling, information and referrals mainly for social services in the Big Bend area [(877) 211-7005, (850) 224-6333, 211; Web site is http://www.211bigbend.org].

Education

(a) The Learning Resources Center of the College of Nursing has books, slides and videotapes on alcohol and other substances which are available to instructors in the College of Nursing. All other staff or faculty would need approval from the Dean of the College of Nursing to access these resources [644-1291]. More information is available at http://nursing.fsu.edu/.

(b) Center for Health Advocacy and Wellness (CHAW)s at University Health Services [644-8871; Web site is www.chaw.fsu.edu].

(c) SMART (Students Making Alcohol and Other Drug Responsibility Theirs (SMART) Choices consists of two, two-hour class sessions and an interactive online program at University Health Services that presents the legal and personal consequences of substance abuse. The purpose of the course is to introduce the student to a process of self-examination that may lead to improved decision making and behavior change. Students who are sanctioned by the Office of Investigations & Assessment [644-2428, Dean of Students Department] or University Housing [644-2860] for on or off-campus violations of the University's alcohol and drug policy must complete the course. Students may also enroll in the course free of charge if they would simply like to gain more knowledge about alcohol. Students may contact the Center for Health Advocacy and Wellness [644-8871chaw.fsu.edu] to sign up.

(d) AlcoholEdu: An interactive, two-part on-line program designed to help you make healthy and safe decisions around alcohol use while in college. [https://healthycampus.fsu.edu/for-students/new-student-requirements]

(e) Healthy Noles: Volunteer opportunities for students seeking to work toward greater alcohol responsibility are available through Healthy Noles, which is an organization directed by the Center for Health Advocacy and Wellness at University Health Services. The Healthy Noles advocate for wellness on campus and alcohol responsibility is a significant component. For more information, contact the Center for Health Advocacy and Wellness [644-8871; or for more information visit http://healthycampus.fsu.edu/for-students/get-involved].

(f) Collegiate Recovery Community: Florida State University's Collegiate Recovery Community is here to help students in recovery thrive during their college experience. Our goal is to provide a place for accountability within a healthy community

and a place to have fun, socialize, and develop friendships with like-minded students. Website: https://chaw.fsu.edu/services/collegiate-recovery-community

(g) The Digital Media Center provides media resources, which include listings on alcohol topics, to all campus approved departments and organizations. There is no charge for this service when it is used for regularly scheduled classes [644-5924].

Florida State University State and Local Penalties

Common Alcohol Offenses (Leon County)	Typical Penalty First Offense	Maximum Penalty First Offense
Possession or attempt to purchase alcohol by a person under 21 years of age.	Diversion program; $180 fine; 10 hours community work program.	60 days jail; $500 fine.
Using a false driver's license ID or allowing someone to use your driver's license for an ID card.	Diversion program; $180 fine; 10 hours community work program.	60 days jail; $500 fine.
Providing alcohol to a person under 21.	Diversion program; $180 fine; 10 hours community work program.	60 days jail; $500 fine.

Note: These are only for information. State sanctions are subject to change by the Florida Legislature.

Florida State University Health Risks of Illicit Drugs

Illicit drugs all have some health-threatening qualities—some more than others. Examples include increased heart rate and lung damage from marijuana; central nervous system disorders from cocaine, heroin, and hallucinogens; and liver, lung and kidney damage from inhalants. HIV infection also is spread widely among intravenous drug users. Even infrequent use of illicit drugs can result in physical afflictions, such as hangovers, cardiovascular damage, digestive problems, tremors, impaired sexual response, and injuries due to lost coordination. Other possible effects include reduced alertness and impaired performance at school or work, interpersonal conflicts, and financial difficulties. Dependence and addiction are constant threats to users of illicit substances. Regular abuse of these substances generally exposes users to criminal elements, which may lead to involvement in further criminal activities.

Florida State University Illicit Drug Penalties

The penalty for possession (second-degree misdemeanor) is sixty days jail and $500 fine. Penalties for trafficking (first-degree felony) range up to thirty years imprisonment and fines of $500,000.

Note: These are only for information. State sanctions are subject to change by the Florida Legislature.

Florida State University Standards of Conduct

State of Florida statutes declare that it is unlawful for any person under 21 years of age to consume or possess alcoholic beverages. Consequently, no one under the legal drinking age may consume, distribute, or possess alcohol on University properties or as part of any University activity.

It is unlawful to sell, give, serve, or permit to be served alcoholic beverages to a person under 21 years of age. Furthermore, servers can be held civilly liable for damage caused by underage drinkers to whom they provided alcoholic beverages.

It is unlawful to be under the influence of, to use, possess, distribute, sell, offer, or agree to sell, or represent to sell, narcotics, hallucinogens, dangerous drugs, or controlled substances, except as where permitted by prescription or law.

Florida State University Use of Social Security Numbers

In accordance with *Florida Statute 119.071(5),* students and employees should be aware that Florida State University collects and uses social security numbers for the purpose of performing certain University duties and responsibilities as follows:

- Certain aspects of employment related to federal tax reporting, generation and reporting of I-9 documents, direct deposit, insurance policies, retirement benefits, state and federal reporting requirements;
- Identification and verification of student records, including admission, registration, financial aid, and academic records, as well as verification of identity in connection with the provision of the University's services;
- State and federal reporting of student data as required by law;
- Release to contracted vendors for the purposes of state and federal reporting or provision of contracted services for the faculty, staff, and students of the University;
- Release to commercial entities engaged in the performance of a commercial activity provided the social security numbers will be used only in the performance of a commercial activity and provided the commercial entities make a written request for the social security numbers conforming to the requirements of *Section 119.071(5)(a)7b. (I)-(IV), Florida Statutes*.
- Release to the Florida Board of Governors as follows:
  - When necessary for the performance of the Board's constitutional duties and responsibilities, including but not limited to:
    - Collection of student and employee data from state universities. [Authorized by *Sections 483* and *484* of the Higher Education Act of 1965, Art. IX, s. 7, Fla. Const., Board Regulation 3.007, Fla. Stat. § 1001.706(5)(d), Fla. Stat. § 1008.31(3), and Fla. Stat. § 119.071(5)(a)6]
    - In conjunction with tort claims and tort notices of claim against the Board of Governors [Required by Fla. Stat. § 768.28(6), and Fla. Stat. § 119.071(5)(a)]
    - When the disclosure of the social security number is expressly required by federal or state law or a court order [Authorized by Fla. Stat. § 119.071(5)(a)6]
    - When the individual expressly consents in writing to the disclosure of his or her social security number [Authorized by Fla. Stat. § 119.071(5)(a)6]

The University does not use social security numbers for student identification; instead the University creates a unique identifier for each student called the EMPLID.

Notification of Students' Rights under FERPA

The **Family Educational Rights and Privacy Act (FERPA)** affords students certain rights with respect to their education records. These rights are:

1. The right to inspect and review the student's education records within forty-five days of the day the University receives a request for access. Students should submit to the registrar, dean, or head of the academic department (or appropriate official) written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
2. The right to request the amendment of the student's education records that the student believes is inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is defined as a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional

responsibility. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

   Family Policy Compliance Office
   U.S. Department of Education
   400 Maryland Avenue, S.W.
   Washington, DC 20202-4605

Students have the right to obtain a copy of Florida State University's student record policy. You can obtain a copy of the policy from the Office of the University Registrar, *A3900 University Center, Florida State University, Tallahassee, FL 32306-2480*.

Note: Under Federal Statute, the University is authorized to and may release records to other institutions without notification to the student, when the student is applying for admission.

Release of Student Information

The disclosure or publication of student information is governed by the policies of Florida State University and the State of Education within the framework of state and federal laws, including the Family Educational Rights and Privacy Act of 1974.

The written consent of the student is required for the disclosure or publication of any information that is: (1) personally identifiable of the student and (2) a part of the educational record. Certain exceptions to that generality, both in types of information that can be disclosed and in access to that information, are allowed within the regulations of the Family Educational Rights and Privacy Act, as described in the following paragraphs:

A. Subject to statutory conditions and limitations, prior consent of the student is not required for disclosure of information in the educational record to (or for):
   1. Officials of the University with a legitimate educational interest. A school official is defined as a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his/her professional responsibility;
   2. Certain government agencies;
   3. Accrediting organizations;
   4. Certain financial aid matters;
   5. Certain research circumstances;
   6. Health and safety emergencies;
   7. A court pursuant to order or subpoena, so long as the student is notified in advance of the University's compliance; and
   8. As otherwise provided by law.

B. Subject to statutory conditions and limitations, prior consent of the student is not required for disclosure of certain types of information for:
   1. Portions of the educational record for which the student has signed a waiver;
   2. Portions of the educational record that are exempted by law including records of law enforcement agencies of the University; employment records of the student within the University as long as the student's employment is not predicated upon his or her status as a student; personal records of instructional, supervisory, or administrative personnel; and alumni records related to that student; and
   3. Records transmitted to another school or school system in which the student seeks or intends to enroll, since the University generally forwards these on request.

Note: More specific information regarding such exempted information can be obtained by contacting the Office of the University Registrar, *A3900 University Center*. For the complete text of the applicable statutes refer to Section 1006.52, Florida Statutes, 20 U.S.C. 1232g, and 34 C.F.R. §99.1, et seq. or write the U.S. Department of Education at *600 Independence Ave., S.W., Washington, D.C. 20202*.

C. **Prior consent of the student is not required** for disclosure of portions of the educational record defined by the institution as "Directory Information," which may be released via official media of the University:
   1. Name, date, and place of birth;
   2. Local address;
   3. Permanent address;
   4. EMPLID;
   5. Classification;
   6. Major field of study;
   7. Participation in official University activities and sports;
   8. Weight and height of members of athletic teams;
   9. Dates of attendance at the University;
   10. Degrees, honors, and awards received;
   11. The most recently attended educational institution; and
   12. Digitized photo (Florida State University Card).

Important: The information above, designated by the University as "Directory Information," may be released or published by the University without prior written consent of the student unless exception is made in writing by the student.

Request to Prevent Publication of Directory Information

Students may inform the University in writing of the student's desire to prevent publication of such "Directory Information" or release of such information except as required by law. Appropriate forms for such action are made available by the Office of the University Registrar.

Caution: Until the University can develop the necessary sophistication in our data systems, a student's request to prevent the release of publication of some of the items of "Directory Information" may result in preventing the publication of all items on that list, including graduation lists, honors, and award lists. The student can help avoid such errors with a gentle reminder to the Office of the University Registrar.

For complete information related to the policies outlined above or concerning the procedures regarding waivers and consent forms, or to challenge the accuracy of the educational record, please contact: *Office of the University Registrar, A3900 University Center, Florida State University, Tallahassee, FL 32306-2480*.

Policy for the Use of Photographs and Videos in University Publications

Florida State University randomly and routinely photographs and makes videos on the main campus, branch campuses, and the international and departmental programs for educational and promotional purposes. These photographs and videos appear in official University publications and materials, which include but are not specifically limited to, *General Bulletin* (undergraduate and graduate), *Registration Guide*, Office of Admissions brochures, international program materials, departmental and college brochures, University Web sites, and other University information publications. For further information contact Media Relations at *(850) 644-4030*.

Illegal Downloading of Copyrighted Songs and Movies

Downloading and distribution of copyrighted music, movie and other entertainment files from online distribution sites that offer these items **free of charge** is illegal, in direct violation of the federal Digital Millennium Copyright Act, the Florida State University Student Conduct Code, and the Florida State University Policy OP-H-6 "Use of University Information Technology Resources."

Illegal downloading and file sharing of copyrighted music, movies or other entertainment files is intellectual property/copyright infringement. Illegal downloading and file sharing activities maliciously expose the University's network, computing systems and personal computers to destructive computer malware (viruses, spyware, worms, trojan horses, rootkits, keystroke loggers, etc.), and denial of service attacks. Illegal downloading activity significantly increases the risk of exposure to personal identity theft and irreparable or costly damage to both University and personally owned computing devices.

The potential consequences of illegal downloading and file sharing are extremely serious. There are both civil and criminal penalties for illegal downloading and file sharing:

- In a civil suit, an infringer may be liable for a copyright owner's actual damages plus any profits made from the infringement. Alternatively, the copyright owner may avoid proving actual damage by electing a statutory damage recovery of up to $30,000 or, where the court determines that the infringement occurred willfully, up to $150,000. The actual amount will be based upon what the court in its discretion considers just. See 17 U.S.C. § 504.
- Penalties to be applied in cases of criminal copyright infringement [i.e., violations of 17 U.S.C. § 506(a)], are set forth at 18 U.S.C. § 2319. Congress has increased these penalties substantially in recent years, and has broadened the scope of behaviors to which they can apply. Statutory penalties are found at 18 U.S.C. § 2319. A defendant, convicted for the first time of violating 17 U.S.C. § 506(a) by the unauthorized reproduction or distribution, during any 180-day period, of at least ten copies or phonorecords, or one or more copyrighted works, with a retail value of more than $2,500 can be imprisoned for up to five years and fined up to $250,000, or both. 18 U.S.C. §§ 2319(b), 3571(b)(3).
- Defendants who have previously been convicted of criminal copyright infringement under 18 U.S.C. § 2319(b)(1) may be sentenced to a maximum of ten years imprisonment, a $250,000 fine, or both. Finally, a defendant is guilty of a misdemeanor violation if he violated rights other than those of reproduction or distribution, or has reproduced or distributed less than the requisite number of copies, or if the retail value of the copies reproduced or distributed did not meet the statutory minimum, or if other elements of 17 U.S.C. § 506(a) are not satisfied. Misdemeanants can be sentenced a maximum of one year and can be fined a maximum of $100,000. See 18 U.S.C. §§ 2319(b)(3), 3571(b)(5).

Law firms representing the entertainment industry aggressively investigate instances of music and movie "pirating", and upon identifying the offenders, are increasingly invoking the applicable laws to reap financial settlements and awards totaling thousands of dollars.

The University is not legally empowered to protect, represent, advise or otherwise assist students who become subject to legal proceedings because of copyright infringement. Students who are sued, offered an out-of-court settlement, or cited for criminal copyright infringement must obtain their own legal representation.

In addition to civil and criminal penalties, violators will be subject to the University's disciplinary proceedings:

- **Student Conduct Code** (*https://dos.fsu.edu/srr/conduct-codes/student-conduct-codes/*)**:** A student found to be in violation of provision (5)(c)1 is subject to the sanctions defined in Section (9). Examples of sanctions that may be imposed for violations of the Student Conduct Code include reprimand, service hours, probation, suspension, and dismissal.
- **Florida State University Policy OP-H-6 "Use of University Information Technology Resources"** (*http://policies.vpfa.fsu.edu/policies-and-procedures/technology*)**:** A student found to be in violation of provision C.1.a (11) may lose University computer privileges as defined in paragraph F.2.

For further information regarding the downloading of electronic objects and media, please visit*: http://igs.fsu.edu/copyright-information/policy*.

General Bulletin Statement of Purpose and Notice

This *General Bulletin* is not a contract, either expressed or implied, between the University and the student, but represents a flexible program of the current curriculum, educational plans, offerings, and requirements that may be altered from time to time to carry out the administrative, academic, and procedural purposes and objectives of the University. The University specifically reserves the right to change, delete, or add to any provision, offering, academic curriculum, program, or requirement at any time within the student's period of study at the University. The University further reserves the right to withdraw a student from the University for cause at any time. Students are on notice that admission to the University or registration for a given semester does not guarantee the availability of a course at any specific time. Likewise, admission to the University or registration for a given program of study within the University, or a department or college of the University, is not a guarantee of a degree or of certification in a program.

UNIVERSITY CALENDAR

Opening and Closing Dates

	2020
Fall	August 24–December 11
Homecoming	October 18–24
	2021
Spring	January 6–April 30
Spring Break	March 15–March 19
Summer	**2021**
12 Week Session (A)	May 10–July 30
First 6 Week Session (B)	May 10–June 18
Second 6 Week Session (C)	June 21–July 30
8 Week Session (F)	May 10–July 2
Law 8 Week Session (LW8)	May 3–June 25

For extended dates, see the Extended Calendar available online at *http://registrar.fsu.edu*.

Legal Holidays (No Classes)

	2020
Labor Day	Monday, September 7
Veteran's Day	Wednesday, November 11
Thanksgiving Day	Thursday, November 26
Friday after Thanksgiving	Friday, November 27
Christmas Day	Friday, December 25
	2021
New Year's Day	Friday, January 1
Martin Luther King, Jr. Day	Monday, January 18
Memorial Day	Monday, May 31
Independence Day	Sunday, July 4

For registration dates, see the *Registration Guide* available online at *http://registrar.fsu.edu*.

Admission/Readmission/Non-Degree/Transient Application Deadlines*

	Fall 2020	**Spring 2021**	**Summer 2021**
Undergraduate			
Freshman	November 1	The University does not typically accept first year in college applications for the Spring term.	November 1
Transfer	June 1	November 1	March 1
Graduate[1]	July 1	November 1	March 1
Readmission			
Undergraduate	June 1	November 1	March 1
Graduate[1]	July 1	November 1	March 1
Non-Degree			
Undergraduate	August 1	December 1	April 1
Graduate	August 1	December 1	April 1
Transient Student			
Undergraduate[2]	August 1	December 1	April 1
Graduate	August 1	December 1	April 1

[1] Many graduate programs have earlier deadlines than the University-wide published dates. Contact the individual program or department for the applicable admission deadline. Programs that use the University-wide dates may have earlier deadlines for financial-award consideration.

[2] Includes the Florida Agricultural and Mechanical University/Florida State University Interinstitutional Registration Program.

*All information used to make an admission decision must be received by the published deadline. If the University deadline falls on a weekend, applicants have until the following Monday to submit applications and all supporting documents. Additionally, the University reserves the right to close admission earlier if warranted by enrollment limitations. Deadlines for applications and supporting documents at the FSU Panama City Campus are typically one month prior to the start of each term. Further information on the Panama City campus is available at *http://www.pc.fsu.edu*.

ACADEMIC DEGREE AND CERTIFICATE PROGRAMS

Legend:

B—Bachelor's Degree	**M**—Master's Degree	**A**—Advanced Master's	**S**—Specialist	**D**—Doctoral Degree	**JD**—Juris Doctor	**MD**—Doctor of Medicine

Florida State University offers degree programs through the following colleges, schools, or divisions. Consult the college for currently active programs.

College of Applied Studies:

http://pc.fsu.edu/academics/college-applied-studies

Regular Degree Programs

Law Enforcement Intelligence		M
Nurse Anesthesia		M
Professional Communication	B	M
Public Safety and Security	B	
Recreation, Tourism, and Events	B	

Combined Bachelor's/Master's Pathway

Professional Communication	BS/MS

Certificate Programs

Certificate in Special Events, Undergraduate
Certificate in Law Enforcement Intelligence, Graduate
Certificate in Underwater Crime Scene Investigation, Undergraduate/Graduate

College of Arts and Sciences:

http://artsandsciences.fsu.edu/

Regular Degree Programs

Actuarial Science	B		
Anthropology	B	M	
Biochemistry	B		
Biological Sciences	B	M	D
Biostatistics		M	D
Chemical Science	B		
Chemistry	B	M	D
Classics	B	M	D
Computational Biology	B		
Computational Science	B	M	D
Computer Science	B	M	D
Creative Writing		M	
Cyber Criminology	B		
East Asian Languages and Cultures	B	M	
English	B	M	D
Environmental Science	B		
French	B	M	D
Geology	B	M	D
German	B	M	
Greek	B	M	
History	B	M	D
History and Philosophy of Science		M	
Interdisciplinary Humanities	B		
Italian	B		
Italian Studies		M	
Latin	B	M	
Mathematics	B	M	D
Meteorology	B	M	D
Middle Eastern Studies	B		
Molecular Biophysics			D
Neuroscience	B		D
Oceanography		M	D
Philosophy	B	M	D
Physical Environmental Sciences			D
Physical Science	B		
Physics	B	M	D
Psychology	B	M	D
Religion	B	M	D
Russian	B		
STEM Teaching		M	
Slavic		M	
Spanish	B	M	D
Statistics	B	M	D

Combined Bachelor's/Master's Pathways

Biological Sciences	BS/MS
Computer Science	BS/MS
Cyber Criminology/Computer Science	BS/MS
Mathematics	BS/MS
Statistics	BS/MS
Statistics/Biostatistics	BS/MS

Joint Graduate pathways

Oceanography: Aquatic Environmental Science and Law	MS/JD

Certificate Programs

Certificate in Publishing and Editing (English), Graduate
Certificate in SAS Programming and Data Analysis (Statistics), Undergraduate/Graduate
Certificate in Bioethics, Graduate

College of Business:

http://business.fsu.edu/

Regular Degree Programs

Accounting	B	M	
Business Administration	B	M	D
Business Analytics		M	
Finance	B	M	
Management	B	M	
Management Information Systems	B	M	
Marketing	B		
Real Estate	B		
Risk Management and Insurance	B	M	

Combined Bachelor's/Master's Pathways

Accounting	BS/MAcc
Finance	BS/MBA
Finance	BS/MSF
Human Resources Management	BS/MBA
Management Information Systems	BS/MBA
Management Information Systems	BS/MS-MIS
Marketing	BS/MBA
Real Estate	BS/MBA
Real Estate/Finance	BS-RE/MSF
Risk Management and Insurance	BS/MBA
Risk Management and Insurance	BS/MS-RMI

Joint Graduate Pathways

Business Administration/Law	MBA/JD
Business Administration/Social Work	MBA/MSW

College of Communication and Information:

https://cci.fsu.edu/

Regular Degree Programs

Communication				D
Communication and Digital Media Studies	B	M		
Communication Science and Disorders	B	M		D
Information		M	S	D
Information Technology	B	M		
Professional Communication	B	M		

Combined Bachelor's/Master's Pathways

Communication and Digital Media Studies	BS/MS, BA/MA
Information Technology	BS/MS
Professional Communication	BS/MS, BA/MA

Joint Graduate Pathways

Information and Law	MS/JD
Information Technology and Law	MS/JD

Certificate Programs

Certificate in Communication Science and Disorders, Graduate
Certificate in Developmental Disabilities, Undergraduate, Interdisciplinary
Certificate in Digital Video Production, Graduate
Certificate in Health Information Technology, Undergraduate/Graduate
Certificate in Information Architecture, Graduate
Certificate in Information Leadership and Management, Graduate
Certificate in Multicultural Marketing Communication, Undergraduate/Graduate
Certificate in Project Management, Graduate
Certificate in Reference Services, Graduate
Certificate in School Librarian Leadership, Graduate
Certificate in Youth Services, Graduate

College of Criminology and Criminal Justice:

http://www.criminology.fsu.edu/

Regular Degree Programs

Criminology	B	M	D
Cyber Criminology	B		

Combined Bachelor's/Master's Pathway

Criminology and Criminal Justice	BS/MS

Joint Graduate Pathways

Criminology and Public Administration	MS/MPA
Criminology and Social Work	MS/MSW

Dedman School of Hospitality:

http://dedman.fsu.edu/

Regular Degree Programs

Hospitality and Tourism Management	B			

College of Education:

http://education.fsu.edu/

Regular Degree Programs

Counseling and Human Systems		M*	S	
Counseling Psychology and Human Systems				D
Curriculum and Instruction		M	S	D
Educational Leadership and Policy		M	S	D
Educational Psychology		M	S*	D
Foundations of Education		M		D
Higher Education		M	S*	D
Instructional Systems and Learning Technologies		M		D
Measurement and Statistics		M		D
STEM Teaching	B			
Sport Management	B	M		D
Elementary Education**	B			
English Education**	B			
Social Science Education**	B			
Special Education**	B			
Visual Disabilities**	B	M		D

* No direct admission into the program.
** Bachelor's must be completed in combination with master's to meet teacher certification requirements.

Combined Bachelor's/Master's Pathways

Elementary Education	BS/MS
English Teaching	BS/MS
Social Science Teaching	BS/MS
Special Education Teaching	BS/MS
Visual Disabilities	BS/MS

Joint Graduate Pathways

Law and Sport Management	JD/MS
Law and Sport Management	JM/MS

Certificate Programs

Certificate in Athletic Coaching, Graduate
Certificate in Autism Spectrum Disorder, Graduate
Certificate in Educational Leadership/Administration - Modified Program, Graduate
Certificate in Human Performance Technology, Graduate
Certificate in Institutional Research, Graduate
Certificate in Leadership Studies, Undergraduate
Certificate in Measurement and Statistics, Graduate
Certificate in Online Instructional Development, Graduate
Certificate in Online Teaching and Learning, Graduate
Certificate in Program Evaluation, Graduate

Certificate in Teaching English as a Second Language (TESOL), Undergraduate/Graduate

FAMU–FSU College of Engineering:

http://eng.famu.fsu.edu/

Regular Degree Programs

Biomedical Engineering	B	MS*	M	D
Chemical Engineering	B	MS*	M	D
Civil Engineering	B	M. Eng**	M	D
Environmental Engineering	B/Enviro***			
Computer Engineering	B			
Electrical Engineering	B	MS*	M	D
Industrial Engineering	B		M	D
Engineering Management		MS*		
Mechanical Engineering	B	MS*	M	D
Systems Engineering		MS*		
Sustainable Energy			M	

* Master of Science (non-thesis)
** Master of Engineering (non-thesis)
*** Bachelor of Science in Civil Engineering with Environmental Engineering Major

Combined Bachelor's/Master's Pathways

Chemical Engineering	BS/MS
Chemical and Biomedical Engineering	BS/MS
Civil and Environmental Engineering	BS/M.Eng
Chemical and Environmental Engineering	BS/M.Eng
Electrical Engineering	BS/MS
Industrial Engineering	BS/MS
Mechanical Engineering	BS/MS

College of Fine Arts:

http://cfa.fsu.edu/

Regular Degree Programs

Art Education		M	S	D
Art Therapy		M*		
Arts Administration		M*		
Dance	B	M		
History and Criticism of Art	B	M		D
Interior Architecture and Design	B	M		
Studio Art	B	M		
Theatre	B	M		D

* Offered jointly by the College of Music and the College of Fine Arts.

Combined Bachelor's/Master's Pathways

Art Education	BA/MA
Dance	BFA/MA
Interior Architecture and Design	BS/MS
Museum and Cultural Heritage Studies	BA/MA

Certificate Programs

Certificate in Museum Education and Visitor-Centered Exhibitions, Graduate

The Graduate School

Regular Degree Programs

Materials Science and Engineering	M	D

Certificate Programs

Certificate in Preparing Future Faculty, Graduate

Certificate in Preparing Future Professionals, Graduate

College of Human Sciences:

https://humansciences.fsu.edu

Regular Degree Programs

Athletic Training	B		
Dietetics	B		
Exercise Physiology	B	M	D
Family and Child Sciences	B	M	
Food and Nutrition	B	M	
Human Sciences			D
Marriage and Family Therapy			D

Combined Bachelor's/Master's Pathway

Exercise Physiology	BS/MS

Jim Moran College of Entrepreneurship

http://jimmorancollege.fsu.edu

Regular Degree Programs

Entrepreneurship	B	M	
Retail Entrepreneurship	B	M	

College of Law:

http://www.law.fsu.edu/

Regular Degree Programs

American Law for Foreign Lawyers	M	
Business Law	M	
Environmental Law and Policy	M	
Juris Master	M	
Juris Doctor		JD

Joint Graduate Pathways

Business Administration and Law	MBA/JD
Information and Law	MS/JD
Information Technology and Law	MS/JD
International Affairs and Law	MS/JD
Oceanography: Aquatic Environmental Science and Law	MS/JD
Public Administration and Law	MPA/JD
Social Work and Law	MSW/JD
Sport Management and Law	MS/JD
Urban and Regional Planning and Law	MSP/JD

Certificate Programs

Certificate in Business Law, Graduate
Certificate in Environmental, Natural Resources, and Land Use Law, Graduate
Certificate in Financial Regulation and Compliance, Graduate
Certificate in International Law, Graduate

College of Medicine:

http://med.fsu.edu/

Regular Degree Programs

Biomedical Sciences		M	D
Interdisciplinary Medical Sciences	B		
Medicine			MD
Neuroscience			D
Physician Assistant Studies		M	

College of Motion Picture Arts:

http://film.fsu.edu/

Regular Degree Programs

Motion Picture Arts	B	M
Motion Picture Arts Writing		M
Animation and Digital Arts	B	

College of Music:

http://music.fsu.edu/

Regular Degree Programs

Arts Administration		M[1]	
Music Composition	B	M	D
Music Education	B	M	D
Music Performance	B	M	D
Music Theory and Composition	B	M	D
Music Therapy	B	M	
Music-Liberal Arts	B	M	
Musicology		M	D
Opera Production		M	

* Offered jointly by the College of Music and the College of Fine Arts.

College of Nursing:

http://nursing.fsu.edu/

Regular Degree Programs

Nursing	B		
Doctor of Nursing Practice			D

Certificate Programs

Certificate in Nursing Leadership, Graduate
Certificate in Psychiatric Mental Health Nurse Practitioner, Graduate

College of Social Sciences and Public Policy:

http://www.coss.fsu.edu/

Regular Degree Programs

African American Studies	B		
Applied Economics		M	
Asian Studies	B	M	
Demography		M	
Economics	B	M	D
Environment and Society	B		
Geographic Information Science		M	
Geography	B	M	D
International Affairs	B	M	
Latin American and Caribbean Studies	B		
Political Science	B	M	D
Public Administration		M	D
Public Health	B	M	
Russian and East European Studies	B	M	
Social Science	B		
Sociology	B	M	D
Urban and Regional Planning		M	D

Combined Bachelor's/Master's Pathways

Applied American Politics and Policy	BA or BS/MS*
Demography	BA or BS/MS*
Geographic Information Science	BA or BS/MS
Public Administration	BA or BS/MPA*
Public Health	BA or BS/MPH*
Urban and Regional Planning	BA or BS/MSP*

* Open to qualified students in any undergraduate major who are accepted into the Combined Bachelor's/Master's Pathway.

Joint Graduate Pathways

International Affairs/Law	MA or MS/JD
Public Administration/Criminology	MPA/MS
Public Administration/Law	MPA/JD
Public Administration/Social Work	MPA/MSW
Public Administration/Urban and Regional Planning	MPA/MSP
Urban and Regional Planning/Demography	MSP/MS
Urban and Regional Planning/International Affairs	MSP/MS or MA
Urban and Regional Planning/Law	MSP/JD
Urban and Regional Planning/Public Health	MSP/MPH

Certificate Programs

Certificate in Application of Unmanned Aircraft Systems, Undergraduate/Graduate
Certificate in Civic and Nonprofit Leadership, Graduate
Certificate in Emergency Management, Undergraduate/Graduate
Certificate in Florida City and County Management, Graduate
Certificate in Interdisciplinary Social Sciences, Undergraduate
Certificate in Political Science, Research Intensive, Undergraduate
Certificate in Public Administration, Undergraduate/Graduate
Certificate in Public Financial Management, Graduate
Certificate in U.S. National Intelligence Studies, Graduate

College of Social Work:

http://csw.fsu.edu

Regular Degree Programs

Social Work	B	M	D

Joint Graduate Pathways

Social Work/Business Administration	MSW/MBA
Social Work/Criminology	MSW/MS
Social Work/Law	MSW/JD
Social Work/Public Administration	MSW/MPA

Certificate Programs

Certificate in Child Welfare Practice, Undergraduate/Graduate
Certificate in Gerontology, Undergraduate/Graduate
Certificate in Leadership in Executive and Administrative Development in Social Work, Graduate

Interdisciplinary Programs

Regular Degree Programs

African-American Studies	B		
Asian Studies	B	M	
Biostatistics		M	D
Computational Biology	B		
Computational Science	B	M	D
Cyber Criminology	B		
Environment and Society	B		
Interdisciplinary Humanities	B		
International Affairs	B	M	
Latin-American and Caribbean Studies	B		
Materials Science and Engineering		M	D

Molecular Biophysics			D
Neuroscience			D
Physical Environmental Sciences			D
Public Health	B	M	
Russian and East European Studies	B	M	
STEM Teaching	B	M	
Social Science	B		

RESEARCH FACILITIES AND SPECIAL PROGRAMS

Research and Research Facilities

Since its designation as a university in 1947, Florida State University has built a reputation as a strong center for research and creativity in the sciences, the humanities, and in the arts. During the fiscal year 2019, Florida State University's faculty generated over $233.6 million in external funding to supplement state funds used for research and creative activities. These funds, derived through contracts and grants from various private foundations, industries, and government agencies, are used to provide stipends for graduate students, to improve research facilities, and to support the research itself.

Many members of Florida State University's faculty are renowned scholars in their fields. In the natural sciences, Florida State University is perhaps best known for its basic research programs in physics, chemistry and biochemistry, biology, psychology, meteorology, and oceanography. Its programs in materials science, high-field magnet research, superconductivity, geology, mathematics, computer science, and statistics also have strong research components, both basic and applied. Since 1982, Florida State has operated a College of Engineering as a joint program with Florida A&M University, an enterprise combining strengths in mechanical, electrical and computer, civil, environmental, chemical and biomedical, and industrial and manufacturing engineering. The Florida State University College of Medicine, founded by statute in 2000, has major research components in the biomedical and clinical sciences, family medicine and rural health, geriatrics, and medical humanities and social sciences. Finally, Florida State is pleased to continue its traditional strengths in the performing and creative arts.

Special Programs

The **National High Magnetic Field Laboratory (NHMFL)**, which opened in 1994, is the only user-facility of its kind in the Western Hemisphere. The laboratory develops and provides a variety of research magnets at the highest fields available in the world. The laboratory plays a major role in the international race to enhance scientific disciplines as diverse as biology, chemistry, engineering, geochemistry, materials science, medicine, and physics.

This unique facility supports an extensive in-house research program that advances its scientific and technical capabilities. The in-house research program is built around leading scientists and engineers who concentrate on the study of strongly correlated electron systems, molecular conductors, magnetic materials, magnetic resonance, cryogenics, and new approaches to measuring materials properties in high magnetic fields. Research at the laboratory is opening new frontiers of science at high magnetic fields, which have enormous potential for commercial and industrial applications. The laboratory also has one of the world's foremost magnet and science technology groups, which designs and builds this new generation of magnets. In 1999, the lab brought online a new 45-Tesla hybrid magnet, the most powerful steady-state magnet of its kind in the world. In 2004, the laboratory commissioned the world's first ultra-wide bore 900 MHz NMR magnet for chemical and biomedical research. Another record fell in 2005, when lab engineers completed the 35-T—the world's highest field "resistive" magnet. In 2011, a unique 25-Tesla "split magnet" was completed and put into operation. In 2015, a one-of-a-kind 21-T ion cyclotron resonance mass spectrometer was brought online at NHMFL. Recently, a unique 25-T series connected hybrid magnet, constructed in Tallahassee, was installed at the neutron scattering facility of the Helmoltz Zentrum, Berlin. Construction of a series connected hybrid magnet as well as an all-superconducting 32-T magnet has recently been completed. The former magnet is being used for NMR spectroscopy at the highest field strength yet achieved in the world. The National High Magnetic Field Laboratory has many exciting research opportunities for graduate students who wish to pursue research at the edge of parameter space in any area of science utilizing these world-class resources and instrumentations.

Florida State University has made major investments in faculty and infrastructure in the area of materials science and engineering. The **High Performance Materials Institute (HPMI)**, located in the new Materials Research Building, specializes in the synthesis and characterization of composite materials containing carbon nanotubes. These light weight but very strong materials have broad applications in transportation, armor, and energy. Associated with the NHMFL is the **Applied Superconductivity Center (ASC)**. Researchers at the ASC study high temperature superconducting materials which can be used in magnet construction, motors, and energy storage or transmission devices. Other materials efforts of note take place in the departments of Chemistry and Biochemistry, Physics, and Scientific Computing, as well as in units of the College of Engineering.

The **Center for Advanced Power Systems** is a multidisciplinary research center organized to perform basic and applied research to advance the field of power systems technology. The research focuses on electric power systems modeling and simulation, power electronics and machines, control systems, thermal management, high temperature superconductor characterization, and electrical insulation research. Development of cutting-edge technologies and a technology-savvy workforce in a broad range of aerospace and propulsion disciplines is the focus of the **Florida Center for Advanced Aero-Propulsion (FCAAP)**. FCAAP is a Center of Excellence led by Florida State University with the University of Central Florida, the University of Florida, and Embry-Riddle Aeronautical University as partners. FCAAP is housed in the newly constructed **Aero-Propulsion, Mechatronics and Energy (AME) Building**. The AME building contains a variety of unique instruments and facilities including wind tunnels and specialized device fabrication space.

The **Program in Nuclear Research** is highly ranked nationally, with emphasis on nuclear structure physics, nuclear astrophysics, radioactive beam studies, studies of nuclear reaction mechanisms using polarized Li beams, accelerator-based atomic physics, electron scattering, hadronic nuclear physics, and relativistic heavy ion reactions. A large part of the program in experimental nuclear physics uses Florida State University's Superconducting Linear Accelerator Facility, which ran its first experiment in 1987. The facility consists of a Super-FN tandem Van de Graaff electrostatic accelerator that injects into a heavy-ion superconducting linear accelerator. The facility utilizes state of the art instrumentation, provides forefront nuclear research capability, and is unique in the southeast.

Florida State University's Coastal and Marine Laboratory (FSUCML) is located forty-five miles south of Tallahassee on Apalachee Bay. This research facility gives scientists from all over the nation immediate access to the pollution-free marine environment of the north Florida coast. Facilities include a fleet of research vessels, classrooms, saltwater-equipped laboratories, guest housing, and a dive locker. FSUCML has recently acquired a new 65' aluminum research vessel, the RV *Apalachee*. A scientific diving program provides support for and oversight of all scientific and educational compressed-gas diving conducted under the auspices of Florida State University. The Academic Diving Program also teaches or co-teaches workshops in scientific diving methods.

The **Center for Ocean-Atmospheric Prediction Studies (COAPS)** trains oceanographers, meteorologists, and scientists in related disciplines. Research at COAPS focuses on ocean and atmospheric dynamics and their applications to interdisciplinary studies. In particular, COAPS scientists specialize in the modeling of ocean and atmospheric dynamics, climate prediction on scales of months to decades, air-sea interaction and modeling, and predictions of socio-economic consequences of ocean-atmospheric variations. COAPS hosts the University's component of the **Florida Climate Institute**, a joint venture with the University of Florida.

Structural Biology, a collaboration of faculty from the Departments of Biological Science, Chemistry and Biochemistry, Mathematics, Medical Science, and Physics, is the research emphasis of the **Institute of Molecular Biophysics**. Research conducted by Structural Biology faculty focuses on the three-dimensional structure of biologically important macromolecules and the structural correlates of their functional properties. A variety of state-of-the-art research tools are available in the Institute and allied units including X-ray crystallography, cryoelectron microscopy, mass spectrometry, computer-based molecular modeling, electron paramagnetic resonance, fluorescence, laser and NMR spectroscopies. Graduate students working under Structural Biology faculty can enroll in either the molecular biophysics (MOB) PhD program or in the graduate programs of biological science, biochemistry or physics.

All aspects of child behavior and learning are researched in Florida State University's **Child Development Programs**. The programs provide research sites and laboratory settings in which faculty and graduate students may observe and work with young children. The Institute for Justice Research and Development (IJRD) advances science, policy, and practice to improve the well-being of individuals, families, and communities impacted by criminal justice system involvement. IJRD conducts rigorous, real-world intervention research; rapidly disseminates findings to enact data-driven reforms; trains professionals at the intersection of social work and criminal justice; and harnesses technology to maximize impact.

Computing and information technology are widely used at Florida State University for both research and instruction. The University's **Information Technology Services (ITS)** manages a high speed network that connects computers throughout the University to each other and to the world. ITS also provides wireless connectivity to the network from most locations on the FSU

campus. In addition to the global Internet, Florida State University participates in the Florida LambdaRail and the National LambdaRail project, a special high capacity state and national network for academic and research purposes. The University maintains a shared high performance computing system, the **Research Computing Center**. The current setup has 748 compute nodes and 14,092 CPU cores. The theoretical peak performance of the complete system is 393 TeraFlops. The RCC has recently added 1.5 PetaByte low-cost archival storage capabilities to the facility.

A number of Florida State University programs have won national or international distinction for their research. These include the following:

The **Learning Systems Institute (LSI)** is a diverse, multidisciplinary program designed to bridge the gap between research and practice in education and training. Researchers at LSI combine strengths in educational leadership, instructional design, human performance, and grants management to design, build, and implement effective learning strategies for a wide range of clients around the world. Founded in the 1960s to help the South Korean government in its efforts to overhaul the country's school system through technology, LSI has grown to become an international resource for learning. In the 1990s, the institute's pioneering work in distance learning led to it becoming the home for the University's online educational outreach, based in the institute's Academic and Professional Program Services.

The **Florida Center for Reading Research** was established by Gov. Jeb Bush in 2002 as the central source of research and training for Florida's initiatives in improving the reading and literacy levels of K–12 students throughout the state. The center focuses campus-based research strengths in psychology and education on science-based approaches to reading instruction and assessment that is disseminated through the Florida Department of Education.

Florida State University's **Autism Institute**, housed in the College of Medicine, coordinates and promotes research, education, and service related to the autism spectrum disorders. The institute promotes Interdisciplinary research that advances scientific knowledge and bridges the gap between this knowledge and clinical/educational practice. The **Center for Innovative Collaboration in Medicine and Law** is a joint effort of the College of Medicine and the College of Law. The center explores educational, research, and advocacy avenues for collaboration and cooperation between the medical and legal professions on behalf of the well-being of consumers. The College of Medicine's **Translational Science Laboratory** houses a broad array of biomedical instruments including mass spectrometers, a high through-put DNA sequencer and biophysical macromolecular characterization devices. Also housed in the College is the FSU Magnetic Resonance Imaging Facility. This newly established facility contain a state-of-the-art Siemens Prisma MRI system which is being used primarily for brain imaging research. A Clinical Research Network is in place which leverages regional campuses, rural training sites and a clinical training site with external research partners. The Office for Clinical Research Advancement (OCRA) is a central coordinating and support office for interdisciplinary biomedical and behavioral researchers across campus that engages, connects, and supports FSU research faculty, clinicians, and FSU communities in advancing medical discoveries to improve health outcomes.

The **John and Mable Ringling Museum of Art** located in Sarasota, Florida, is the designated State Museum of Florida. In 2000, the Legislature shifted administration of the museum to Florida State University in recognition, in part, of the growing trend to maximize the educational value and potential of museums and, in part, to take advantage of the University's commitment to the arts. That potential is especially evident through this association with the Sarasota community due to mutual strengths in the areas of the fine and performing arts and corollary interests, such as the American circus. The Ringling Museum, the home of an internationally renowned art collection, occupies sixty acres of beautiful bay front property including the museum of art, the historic Asolo Theatre (restored in 2006), Ca'd'Zan, the Ringling Mansion, and the Circus Museum, now featuring the Tibbals Learning Center, dedicated to preserving the world's largest and most complete collection of circus art and history. Together with the Florida State University Performing Arts Center, which lies adjacent to the art museum, it holds center stage for Florida State University's Ringling Center for the Cultural Arts, which was created by the Florida Legislature in the year 2000.

Florida State University's **Institute of Science and Public Affairs** is a multifaceted institute of public service and applied research that helps government and private agencies solve problems ranging from hazardous waste disposal to conflict resolution. Research centers within the institute are designed to respond to public and private sector needs. Specialists in the fields of biology, chemistry, geography, education, planning, public administration, physics, economics, law, and other areas carry out the University's public service responsibility through programs in education, training, and applied research. The overriding objective is to successfully apply resources, human and technical, to policy problems within the state of Florida. The Institute provides University students the opportunity to work on specific projects in institute centers under the supervision of experienced faculty and staff. These projects provide training for students in problem-solving environments. Government agencies and private sector organizations benefit from this dynamic source of trained and skilled personnel.

Since 1951, students and faculty of Florida State University have benefited from its membership in **Oak Ridge Associated Universities (ORAU)**. ORAU is a consortium of more than one hundred PhD granting universities and a management and operating contractor for the U.S. Department of Energy (DOE), located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members. Through the Oak Ridge Institute for Science and Education, the DOE facility that ORAU manages, undergraduates, graduates, postgraduates, and faculty enjoy access to a multitude of opportunities for study and research. Students can participate in programs covering a wide variety of disciplines, including business, earth sciences, epidemiology, engineering, physics, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are especially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines.

In addition to membership in ORAU, Florida State University is one of the eight core university partners with **Oak Ridge National Laboratory (ORNL)**. The other partner universities include Duke University, Georgia Tech, North Carolina State University, University of Tennessee, University of Virginia, Vanderbilt University, and Virginia Tech. Partnership with ORNL facilitates research collaborations and affords access for faculty, postdoctoral fellows and graduate students to unique capabilities in neuron scattering, high performance computing, and materials science. Furthermore, graduate students have the potential to participate in ORNL's Graduate Opportunities (GO!) Program involving dual mentorship between FSU faculty and national lab staff members.

STUDENT VETERAN INFORMATION

IMPORTANT NOTE: All policies outlined in this General Bulletin apply to every university student who matriculates during the fall, spring, or summer semester of the academic year covered herein, including student veterans. The policies outlined below, however, are specific to student veterans. Please familiarize yourself with this Bulletin in its entirety, and refer to the "Student Services," "Academic Regulations," and "Financial Information" chapters for a complete reading of policies and procedures pertaining to those areas. You are responsible for understanding not only the student veteran portions of this Bulletin, but all of the policies and procedures that might pertain to you outside of your student veteran designation.

Student Veterans Center

The Florida State University **Student Veterans Center (SVC)** provides programs and services designed to enhance the retention, graduation, and career-placement rates of student veterans, active-military students, and their dependents. SVC services include assistance with and certification of educational benefits provided through the departments of Veterans Affairs and Defense. In addition, the SVC conducts the orientation breakout sessions for these students and offers a one hour/week course each Fall and Spring semester called Strategies for Veteran Success (SLS 3407). The SVC also coordinates the dozens of Veteran Liaisons (*https://veterans.fsu.edu/about-us/veteran-liaisons*) who are available for advice and assistance in academic and administrative units throughout campus. For more information, please visit *A4300 University Center*, call *(850) 644-9562*, fax *(850) 645-9868*, e-mail *veteran@fsu.edu*, or visit *https://veterans.fsu.edu/*.

Priority Registration

Priority course registration for an upcoming semester is available to active-military students, student veterans, and military/veteran dependents who have made prior contact with the Student Veterans Center by self-identifying (as one of these types of students) or by submitting an FSU Request for Benefits form. However, priority registration is not available to these students if they are registering for classes for the first time (as either freshmen, transfer students or graduate students). In other words, the priority registration policy takes effect when the course-registration window opens for these students' second semester of classes. Any student who chooses to use VA education benefits must submit to the Student Veterans Center the required form(s) and supporting documentation.

Note that Section 303 of Public Law 115-48 requires the federal Department of Veterans Affairs to publicly report if a school offers priority course registration (or enrollment) to veteran/military students. In addition, Florida law 1004.075 requires public universities to offer priority course registration to veteran/military/dependent students who are using G.I. Bill ® benefits, until these benefits expire. Florida State University exceeds this state law by offering priority course registration, until the time they graduate, to all veteran/military students – including those not using G.I. Bill ® benefits – and veteran/military dependents (if dependents have used G.I. Bill ® benefits during part of their time at FSU).

Military Short-Term Absence or Call to Active Duty

The University recognizes and appreciates the important contributions made in service of our country by active duty, Reserve, and National Guard members and their dependents. In order to accommodate the students and their dependents, University faculty and staff will provide them with the following options to accommodate unexpected training/drill, deployment, or change-of-station orders:

For any training/drill, deployment, or change-of-station orders: Students must attempt to make arrangements with their instructors to maintain and/or make up classwork as needed. Registration for those courses in which instructors accommodate the absence will remain unchanged and tuition and mandatory fees will be assessed in full for those courses. Service members should provide instructors with maximum advance notice of absences, providing copies of training/drill, deployment, and/or change-of-station directives from the Military, Reserve, or National Guard.

Instructors will work with students wherever possible to assign grades as appropriate (including incompletes to be made up later). Instructors must accommodate absences of up to two weeks in duration (or equivalent in Summer) in accordance with paragraph one.

When unable to make satisfactory arrangements with all instructors: Courses will be dropped and the tuition and mandatory fees for those courses will be rescinded.

When unable to make arrangements with any instructors for unexpected orders requiring longer than a two-week absence: The student's entire registration will be withdrawn or cancelled and 100% of the tuition and mandatory fees will be rescinded.

Tuition Waivers – Military Veterans, Service Members, and their Dependents

An out-of-state tuition waiver is offered to FSU students physically residing in Florida who are current or former members of the U.S. Armed Services – including honorably discharged veterans, and members of the Reserve or National Guard – as well as eligible veteran/military dependents who are using federal Veterans Affairs educational benefits. The out-of-state tuition waiver is also extended to active duty members of the U.S. armed services who are stationed or reside outside the state of Florida.

In accordance with Public Law 115-251, students using VA educational benefit Chapters 30, 31 or 33 must also submit a written request for an out-of-state tuition waiver to the FSU Student Veterans Center. In addition, these students must provide the SVC with their Certificate of Eligibility prior to the tuition-payment deadline each semester.

Contact the FSU Student Veterans Center for additional information on out-of-state tuition waivers and their requirements.

Military Credit

Current and former members of the U.S. Armed Services may receive college credit based upon military experience, training, and coursework. Academic credit acquired while in the military will only be awarded if it is recognized by the American Council on Education (ACE) in its *Guide to the Evaluation of Education Experiences in the Armed Services*. Note that ACE recommendations for vocational or technical credit are not accepted as transfer credit.

Credits earned will be evaluated after the application review process has been completed and admission to the university has been granted. The Audit and Evaluation Section of the Office of the University Registrar will post all credit earned for military experience, training, and coursework, as recommended in the ACE *Guide,* to the student's permanent record.

Note that academic credit earned through the Community College of the Air Force is evaluated through the standard transcript-review process.

Deferments and Financial Arrangements

Students using VA education benefits are entitled to an additional stipend each month from the federal government. However, the first of these stipend checks are sometimes delayed, so these students should be prepared to meet all of their expenses for the first two months.

Any time there is a delay in the receipt of VA educational benefits, students using these benefits to cover tuition and health fees can defer (postpone) their payment (in accordance with Florida law 1009.27(2)). This deferment is not automatic, however, and must be explicitly requested by eligible students through the Student Veterans Center, by the fifth day of the semester. Students receiving deferments who have other types of financial aid pending will have their tuition paid by that financial aid and their veterans deferment nullified.

With certain exceptions (see the next paragraph), students who receive a veteran deferment but whose tuition is still not paid by the deferment expiration date will be assessed a $100.00 late payment fee and may have their course schedule cancelled. Moreover, such students will not be eligible to receive a veteran deferment in the future. (Note also that course registration, transcripts, and diplomas will not be processed until all university debts are paid in full.)

In accordance with Public Law 115-407, students using VA educational benefit Chapters 31 and 33 are protected from portions of the above policy, but only after these students provide additional documents to the FSU Student Veterans Center. The protection starts when a Chapter 31/33 student submits their Request for Benefits form, or their Certificate of Eligibility, or a Statement of Benefits, or their Chapter 31 authorization. The protection ends when the VA makes payment or 90 days after the date FSU certifies the tuition and fees.

Return of Military Tuition Assistance Funds Due to Withdrawal

Florida State University will return any unearned tuition assistance (TA) funds on a prorate basis through at least the 60% portion of the period for which the funds were provided. TA funds are earned proportionally during an enrollment period, with unearned funds returned based upon when a student stops attending. These funds are returned to the military service branch. Questions concerning return of funds can be directed to *CTL-TPC@fsu.edu*.

U.S. Department of Veterans Affairs Approved Facilities

Branch Campus Locations

Sub Facility Code	Name	Address	Site Type
11816010	Florida State University	600 W College Avenue, Tallahassee, FL 32306 United States 222 South Copeland Street	Main Campus
11816210	Florida State University Panama City	4750 Collegiate Drive, Panama City, FL 32405 United States	Branch Campus
11816110	Florida State University Republic of Panama	FSU-Panama Edificio 227, Ciudad del Saber, Panama, Republic of Panama	Branch Campus

Off-Campus Instructional Locations

Sub Facility Code	Description	Address	City	Zip Code
11X18710	**Extensions Located in 32301 zip code**			
	Jim Moran Building	111 S Monroe St.	Tallahassee	32301
	Law School Advocacy Center	301 S M L King Jr Blvd.	Tallahassee	32301
	Warren Bldg.	201 W Bloxham St.	Tallahassee	32301
11X18310	**Extensions Located in 32304 zip code**			
	Dunlap Success Center	100 S Woodward Ave.	Tallahassee	32304
	Honors Scholars & Fellows	127 Honors Way	Tallahassee	32304
	Deviney Hall	111 S Woodward Ave.	Tallahassee	32304
	Carnaghi Arts Building	2214 Belle Vue Way	Tallahassee	32304
11X18910	**Extensions Located in 32310 zip code**			
	Middleton Golf Center	2550 Pottsdamer St.	Tallahassee	32310
	FAMU-FSU Engineering Bldg. B	2525 Pottsdamer St.	Tallahassee	32310
	FAMU-FSU Engineering Bldg. A	2525 Pottsdamer St.	Tallahassee	32310
	I.P. - Johnson (Robert M.)	2035 East Paul Dirac Dr.	Tallahassee	32310
	Materials Research Building	2005 Levy Ave.	Tallahassee	32310
	Multi-Purpose Education Facil.	2566 Pottsdamer St.	Tallahassee	32310
11X18510	**Extension Located in 34142 zip code**			
	Collier (Immokalee) Clinic	1441 Heritage Blvd.	Immokalee	34142
11X18410	**Extension Located in 34143 zip code**			
	Center for the Performing Arts	5555 N Tamiami Trail	Sarasota	34243
11X19210	**Extension Located in 32772 zip code**			
	Saint Petersburg College- University Partnership Center	FSU Suite 122, 9200 113th Street North	Seminole	32772
11x18810	Mckennon Hall/Daytona Beach CC	1200 W International Speedway Blvd.	Daytona Beach	32120

11x18610	Ft. Pierce Regional Medical Facility	2498 S 35th St.	Ft. Pierce	34981
11x19010	Orlando Regional Medical Facility	250 E Colonial Dr., Suite 100	Orlando	32801
11x19110	Pensacola Regional Medical Facility	1000 University Parkway	Pensacola	32504
11x19310	Sarasota Regional Medical Facility	201 Cocoanut Ave.	Sarasota	34236
11x19410	Tallahassee Regional Medical Facility	3331 Capital Oaks Dr.	Tallahassee	32308

Overseas Locations

Region	Address	City	County	Country Code
International	The Alpine Lodge, Route De Belvédère, 1854 Leysin, Switzerland	Leysin	Switzerland	SZ
International	Calle La Chimba - Rio Oro, San José, Santa Ana, 10904,	San Jose	Costa Rica	CR
International	Ul. Myasnitskaya, 20 Moscow, 101000 Russian Federation	Moscow	Russia	RU
Italy	15 Borgo Degli Albrizi, 50122	Firenze	Italy	IT
Spain	2 Caller Blanquerias	Valencia	Spain	ES
United Kingdom	99 Great Russell Street, Greater London	London	England	GB

INTERNATIONAL EDUCATION

International Commitment

Florida State University recognizes that a great university builds and extends its service, its potential for research, and its scholarly standing, and enhances its contribution to the education of students and citizens of the state by providing an international dimension to its educational programs. This is true in the professions, the sciences, the arts, and the humanities.

The University recognizes that in an interdependent world, the welfare of the state and the well-being of its citizens are linked to the welfare of all peoples. Thus, it is vital that the teaching, research, and service of Florida State University support the economic and social development of the state, the nation, and other countries; protect the world environment; lead individuals and groups to better understanding of themselves and others; and contribute toward international understanding, world peace, and community self-awareness.

The University, in serving the community, recognizes that its major responsibility is to educate students in a manner that provides them with the understanding, skills, and knowledge that will allow them to be creative and useful citizens not only of the state, but of the world. In this process of education, students from other countries who study at our campus and Florida State University students who have studied overseas play an important role.

To accomplish these goals, Florida State University encourages and seeks students from abroad for its undergraduate and graduate programs and professional colleges and schools in such numbers and with such geographic origins, as to have an impact on the achievement of the University's educational goals. It also seeks to provide opportunities for study abroad for its students and to afford them guidance and assistance in integrating these experiences with regular university study. Finally, the University encourages the development of an international dimension in the teaching, research, and service through the exchange of persons, ideas, and materials with other countries.

Florida State University seeks to accomplish these objectives through evaluation of existing and proposed international programs and services and by both short- and long-range planning for continued improvement and innovation to further the goals of international education in the University. Consistent with these goals, the University resolves to make available its facilities and resources to offer diversified international educational programs of quality and usefulness for all its students. The financial support needed for the accomplishment of these goals will be provided by University resources and is actively sought from state, federal, and foreign governments, as well as from international organizations, foundations, private organizations, and individual donors.

Center for Global Engagement

Director: Cynthia Green; **Associate Director:** Kristen Hagen

The mission of the **Center for Global Engagement (CGE)**, under the Division of Student Affairs, is to facilitate international diversity and foster global understanding and awareness within the FSU community. The CGE is committed to enhancing FSU's internationalization initiatives by offering academic classes and several certificate programs designed to help develop a more intercultural and competent campus community. The Global Partner Certificate Program provides training and workshops to increase intercultural competence for faculty and staff. The Global Citizenship Certificate Program helps prepare undergraduate students for today's global society through a combination of curricular and co-curricular programs. The CGE also offers many enriching co-curricular opportunities for all FSU students to explore other cultures and current global issues through intercultural programs, the Engage Your World Intercultural Dialogue Series, International Coffee Hour, and Global Café. The CGE works to increase international student enrollment by supporting programs bringing in funded international students through foreign government or third-party sponsors and developing special programs through agreements with partner institutions abroad to attract talented students to the University to complete their senior year and apply to graduate school. The CGE facilitates both academic and short-term cultural exchange programs with over 45 international partner universities. The CGE also provides immigration services and ongoing support to international students and visiting scholars to ensure immigration compliance and to assist with their integration into the campus community.

The Center for Global Engagement is located in the Global and Multicultural Engagement building (The Globe) at *110 S. Woodward Avenue, Tallahassee, FL 32306-4216*. For more information, visit *http://cge.fsu.edu/*, call *(850) 644-1702*, or e-mail *cge@fsu.edu.*

The Frederick L. Jenks Center for Intensive English Studies

Program Director: Patrick Kennell

The **Frederick L. Jenks Center for Intensive English Studies (CIES)** provides intensive instruction in the English language to non-English speakers. Its primary target audience is international scholars who are preparing to pursue degree work in American colleges and universities.

In addition, CIES evaluates the English speaking proficiency of FSU's international Teaching Assistants (TAs) through its administration and scoring of the SPEAK test. Along with this assessment, the Center provides credit-bearing classes for those prospective international TAs who need further development of their speaking proficiency in English.

The center also provides English-as-a-second-language services for the spouses of regular students at Florida State University, as well as for some already admitted international students who are experiencing difficulty in mastering the English language. CIES has an average of fifty to sixty students per session, representing approximately twenty different countries. Through its well-developed Conversation Partner program, CIES also serves as an integral part of FSU's Global Pathways Certificate in providing many valuable and interesting opportunities for FSU students to meet, interact, and develop friendships with students from around the world. CIES truly is the place at Florida State "where the world comes to learn English". For further information, please call us at *(850) 644-4797* or visit our Web site at *http://cies.fsu.edu*.

International Programs

Director: James E. Pitts; **Associate Director:** Louisa Blenman

Florida State University offers a wide variety of opportunities for students to study overseas. Students learn not only from their exposure to the cultural resources of the host countries but also through firsthand observations and participation in the political, economic, and social changes taking place outside the United States.

The University has operated international study centers in Panama City, Republic of Panama since 1957; in Florence, Italy since 1966; in London, England since 1971; and in Spain since 1997 (originating in Torremolinos and moving to its permanent home in Valencia in 2000). At each of these locations, courses are offered during the Fall, Spring, and Summer semesters. In addition to FSU students, the centers are open to students from other U.S. institutions and throughout the world.

Each of these study centers offers a broad curriculum, which includes courses that ideally lend themselves to their international location. In Florence, the courses focus on the areas of art history, classics, writing, English literature, history, humanities, Italian language, and politics. The London center offers courses in the areas of art history, education, English literature and writing, history, mathematics, music, politics, science, social sciences, and theatre. In addition, the London Study Center serves as a base of operations for a number of curriculum-focused programs. Students may pursue specific topics such as British history, English literature, communications, international affairs, choral and instrumental music education, global sport management, multi-media, theatre, textiles, and merchandising. In Valencia, courses are offered in Spanish language, literature, and civilization as well as art, business, English literature, humanities, music, mathematics, and science. In the Republic of Panama, the FSU-Panama campus offers courses in a variety of liberal arts disciplines including mathematics and the sciences. FSU-Panama also functions as a two- or four-year degree institution serving a large population of native Panamanians. Each study center offers an extensive internship program within a variety of disciplines.

In addition to the four Study Centers, International Programs offers programs in many other locations with sites varying from year to year. Programs are currently planned in locations including Australia, China, Costa Rica, Croatia, Czech Republic, France, Germany, Grenada, Indonesia, Russia, Switzerland, Thailand, and the United Kingdom. These locations host a variety of study abroad faculty-led opportunities which are either broad curriculum offerings or programs focusing on a particular area or major. Internship opportunities are available in Australia and China, as well as at the four study centers. Additionally, the First Year Abroad program, created especially for high-achieving, global-thinking students, allows students to complete the first twelve months of their Florida State career studying abroad with International Programs. Students can choose to spend their first year at any of the four study

center locations. These students may be able to change their location for the Summer term and spend it at any other study center, though visa restrictions apply for some locations. International Programs is constantly adding to and updating the program offerings and locations. For the latest information, visit the Web site at *https://www.international.fsu.edu* or contact us at: *International Programs, A5500 University Center Tallahassee, FL 32306-2420; (850) 644-3272* or *(800) 374-8581*; *IP-info@fsu.edu*.

Florida-Costa Rica Institute

Co-Director: Stephanie F. Tillman

The Florida-Costa Rica Linkage Institute, known as FLORICA, was created in 1986, authorized by the Florida Legislature in 1987, and formalized by an agreement signed by the State University System of Florida, the Florida Community College System and the Council of Rectors of Costa Rican Universities (CONARE). Since its beginning, FLORICA has been administered for Costa Rica by CONARE and on behalf of the State of Florida by The Florida State University and Valencia College, with co-directors appointed from each institution.

FLORICA has strong credibility both in Florida and Costa Rica as a stimulus and a catalyst. The Institute has interfaced broadly in Costa Rica with public and private institutions and agencies including all of the public universities.

Costa Rican citizens who have applied and have been accepted into a Florida public university or community college may apply for out-of-state tuition waivers through the Florida-Costa Rica Institute Non-Resident Tuition Exemption Program.

For more information, visit *https://international.fsu.edu/Documents/MoneyMatters/Scholarship-FloricaApplication.pdf* or call *(850) 644-3272*.

Law Program at The University of Oxford

Florida State University conducts an international law program in the prestigious academic atmosphere of the University of Oxford. The program utilizes its unique setting to enhance the study of international and comparative law and the history of common law. ABA-approved law courses are taught by a combination of Florida State University College of Law faculty and approved professors from the University of Oxford. The program is available to students in good standing at an ABA-approved law school who have completed at least one year of study. Visit our Web site at *https://www.law.fsu.edu/academics/academic-programs/study-abroad/oxford*.

STUDENT SERVICES

Florida State University students engage in a supportive and challenging environment designed to maximize learning and success. The University provides opportunities for student growth in the areas of social and cultural awareness, physical well-being, intellectual expansion, and spiritual and moral growth. The University is committed to creating a sense of community among students, faculty, and administrators that embodies respect, responsibility, and acceptance of all people.

Division of Student Affairs

Vice President for Student Affairs: Dr. Amy Hecht
Associate Vice President for Student Affairs: Dr. Allison Crume
Associate Vice President for Student Affairs: Angela Lauer Chong, J.D.
Assistant Vice President for Student Affairs: Dr. Brandon Bowden
Director of Administration: Dr. Dorsey Spencer Jr.

The goals of the Division of Student Affairs are to facilitate student development, celebrate differences, and promote civic and global responsibility in both formal and informal educational experiences. The Vice President for Student Affairs and staff are responsible for the following departments:

- Campus Recreation
  - Dr. Bobby E. Leach Student Recreation Center
  - Fitness & Movement Clinic
  - FSU Challenge
  - FSU Reservation Lakefront Park
  - Intramural Sports
  - Outdoor Pursuits
  - Sports Clubs
- The Career Center
- The Center for Academic Retention and Enhancement (CARE)
  - Summer Bridge Program
  - Unconquered Scholars Program
  - Student Support Services (SSS)
  - Student Support Services-STEM (SSS-STEM)
  - Bridge to Graduate School
  - Transition, Engagement, & Academic Mentoring (TEAM)
  - College Success Program
  - Pre-Collegiate Programs
- The Center for Global Engagement
- The Center for Leadership & Social Change
- Counseling and Psychological Services
- Department of Student Support and Transitions
  - Case Management Services
  - New Student and Family Programs
  - Office of Accessibility Services
  - Office of Investigation and Assessment
  - Victim Advocate Program
  - Withdrawal Services
- Oglesby Union
  - Art Center
  - Askew Student Life Center
  - Crenshaw Lanes
  - Fraternity and Sorority Life
  - FSU Flying High Circus
  - Guest Services
  - Oglesby Gallery
  - Union Board
  - Union Productions
  - Student Conduct and Community Standards
    - Student Engagement
  - Student Governance and Advocacy
  - Student Life Cinema
  - Student Organizations and Involvement
- University Health Services
  - Center for Health Advocacy and Wellness
- University Housing
- FSU Childcare and Early Learning Programs

Some of these departments and their programs are highlighted below; however, for more complete information, refer to Florida State University Student Handbook or the Division of Student Affairs Web site at *http://www.studentaffairs.fsu.edu/*. The Handbook is available at the Union Information Center.

The University also offers the following student service programs, which are administered by their individual offices or departments:

- Assessment Services
- FSU Police Department
- Radio and Television
- Seminole Dining
- Student Veterans Center
- Transportation and Parking Services
  - Bicycles on Campus

For academic support services, refer to the "Academic Advising and Academic Support Services" chapter of this *General Bulletin*. For employment services, refer to the "Financial Information" chapter.

Campus Recreation

"Find what moves you" with Campus Recreation. The department supports every member of the FSU community in their pursuit of lifelong wellness by providing a diverse array of high-quality recreational programs, services, and facilities.

Two fitness facilities, the Dr. **Bobby E. Leach Student Recreation Center** and the **Fitness and Movement Clinic**, offer a variety of fitness and wellness services to students, faculty, and staff. Both facilities feature cardiovascular and strength training equipment along with free weights available to all patrons. Nearly one hundred group fitness classes are available each week along with fitness coaching and personal training services from nationally-certified staff. The Leach Center also contains a sixteen-lane, twenty-five-yard lap pool, spa and sauna, indoor jogging track, basketball and racquetball courts, and smoothie bar. The **FSU Aquatics** staff provides health and safety instruction, including CPR/AED, First Aid, and Lifeguard training, adult and youth swim lessons, and other certification programs. Access to both fitness facilities is free for students. Faculty, staff, alumni, and affiliates may purchase monthly or annual memberships.

The **FSU Reservation** (the "Rez") is the University's seventy-three acre lakefront facility located just five minutes from campus. Students gain free entry into the Rez, where they can enjoy kayaking, canoeing, sailing, or stand-up paddle boarding on Lake Bradford. Sunning, swimming, sand volleyball, disc golf, a climbing wall, and picnic pavilions are also available. Student organizations, University programs, and other community groups can rent space in the FSU Reservation Retreat Center for meetings. The Rez is also home to Campus Recreation's high and low challenge (ropes) courses, which host teambuilding and leadership development events by the FSU **Challenge Program**. The **Outdoor Pursuits** program at the Rez provides students the opportunity to enjoy outdoor adventure trips around the region including backpacking, kayaking, climbing, mountain biking, and paddling.

Campus Recreation also operates the **Intramural Sports and Sport Club** programs. Students may participate in over forty intramural sport leagues year-round, from flag football to soccer and basketball to kickball. Leagues are available for men's, women's and co-ed teams with various divisions to accommodate a wide range of skill and talent levels. Most IM sports are free for students. Over 2,000 students participate in one of nearly forty sport clubs. The clubs provide various instructional, recreational, and competitive opportunities for the more dedicated athlete. Sport clubs are over ninety percent self-funded, meaning that students fundraise tens of thousands of dollars annually to purchase new equipment, uniforms, and to fund travel. Students can also enjoy pick-up games virtually any time at FSU's outdoor sports facilities including the award-winning Rec SportsPlex, the Main Campus Fields, and Westside Courts.

For more information on Campus Recreation offerings, visit *http://campusrec.fsu.edu*.

Career Center

Nationally recognized for its comprehensive career services, the Florida State University Career Center provides students and alumni with the services and resources they need for career success. With individualized career advising, a library offering thousands of information resources, employability skills workshops, mock interviews, and more, The Career Center helps students and alumni design their careers.

Career advisors, liaisons, and staff assist students with choosing a major, researching occupations and potential employers, identifying internship opportunities, exploring post-graduate study, and developing job search strategies. No appointment is necessary to speak with a career advisor or liaison. For students who would like to design their career plans with the assistance of an instructor, The Career Center offers a one to three-credit hour course, SDS 3340 Introduction to Career Development. The course gives students indispensable resources to help make a successful transition to their future career opportunities.

The Career Center connects students directly with employers through career fairs, on-campus interviewing, job shadowing, a mentorship program, and a powerful network of Florida State alumni and friends of the University. These programs and services allow students to network with employers and apply for full-time, part-time, and internship positions as well as for other career-related work experience such as cooperative education, externships, or volunteer opportunities through NoleNetwork, an extensive online jobs database. Through online micro-credentialing programs like ProfessioNole Ready and ProfessioNole Pathways, The Career Center is able to help students develop and strengthen career-readiness competencies through co-curricular engagement to make themselves more appealing to potential employers.

FSU students can stand out from the competition by taking advantage of Career Center programs and services like the Career Portfolio and the Garnet & Gold Society. The Career Portfolio allows students in all academic disciplines to learn about, build, and manage their skills and accomplishments through an online portal. Additionally, students can make themselves more marketable to employers or graduate programs by participating in the Garnet and Gold Scholar Society, a unique program that facilitates involvement and recognizes engaged, well-rounded students who excel within and beyond the classroom. The Career Center also offers customized mock interviews, where students can practice and improve their interviewing skills, as well as workshops where Career Center staff present on employability and career development skills, including job searching, writing résumés and cover letters, interviewing, going to graduate school, and more.

For the sixth year in a row, students reported that the number one way they found employment was through The Career Center. Each year, The Career Center engages with more than 30,000 students, helping them discover their unique interests and preparing them for career success.

The Career Center is located in the Dunlap Student Success Center at the corner of Woodward Avenue and Traditions Way and is open from 8:00 a.m. to 5:00 p.m. (EST), Monday through Friday. Drop-in career advising is available Monday through Friday from 9:00 a.m. to 4:30 p.m. and on select Tuesday evenings until 8:00 p.m. during the Fall and Spring semesters. On Fridays, career advising is not available from 1:30 to 2:30 p.m. For more information about The Career Center's events and services, call (850) 644-6431 or visit *http://www.career.fsu.edu*.

Center for Academic Retention and Enhancement (CARE)

Florida State University and the **Center for Academic Retention and Enhancement (CARE)** are committed to recruiting, retaining, and graduating students traditionally underrepresented in higher education, with particular focus on first-generation and economically disadvantaged students at FSU. CARE is a multifaceted department that provides preparation, orientation, and academic support programming for students who face unique challenges in college because of economic and educational circumstances. CARE is designed to help students who are traditionally underrepresented in higher education enroll, persist, and graduate from college by connecting them to the resources, tools, and network of support that will aid in their academic and personal development.

CARE offers participants a variety of programs and services to support their academic, personal, and professional development such as exclusive, full-credit Liberal Studies courses, academic advising, college life coaching, financial aid and literacy advising, academic tutoring, a computer lab, learning skills workshops, graduate school preparation, and cultural enrichment activities. The Center promotes a caring environment for students to discuss their academic, personal, and/or social concerns with a friendly, supportive staff.

For more information on CARE's programs and services, please visit *https://care.fsu.edu*, or contact the Department at *CARE@fsu.edu or (850) 644-9699*.

The **Summer Bridge Program** is a high school-to-college admissions and transition program to assist students who are the first generation in their family to attend college and are economically disadvantaged. The Summer Bridge Program provides comprehensive orientation and academic support for participants designed to ease the transition from high school to college and to build a strong academic foundation. Students admitted to the University through the CARE Summer Bridge Program begin their studies in the summer and maintain their membership throughout their enrollment at FSU. Interested students should submit an application for admission to the University, CARE supplemental questions, Self-reported Student Academic Record, ACT or SAT test scores, and the Free Application for Federal Student Aid (FAFSA). The minimum requirements for consideration include a 3.0 academic GPA as recalculated by the Office of Admissions and either an ACT composite score of 19 or SAT total score of 990. Meeting the minimum requirements does not guarantee admission to the program.

Unconquered Scholars Program provides an array of support services promoting overall success to youth who experienced foster care, homelessness, relative care, or ward of the State status. Florida State University is committed to meeting the unique needs of Unconquered students, so they experience the long-term professional and personal benefits associated with educational attainment. The Unconquered Scholars Program offers participants advising, financial aid assistance, mental wellness support programming, academic and personal skills workshops, volunteer opportunities, and social programs/activities. For more information on the Unconquered Scholars Program, contact the Program Coordinator at (850) 644-9699.

Student Support Services (SSS) is a federally funded TRIO program offering free academic and personal support services to program participants to help them remain at FSU, graduate on-time, and prepare for post-graduation life. FSU SSS provides academic and engagement activities for qualified students throughout their enrollment at FSU. Students must meet educational and income guidelines to be eligible to participate in SSS.

Student Support Services-STEM (SSS-STEM) works with qualified students majoring a Science, Technology, Engineering, or Math (STEM) field. Participants of SSS-STEM connect to supplemental tutoring, academic workshops, experiential learning opportunities, and post-graduation planning activities. STEM Specialists help participants connect their classroom experiences to real-world application. Students must meet educational and financial qualifications to participate and must major in a STEM program of study. SSS-STEM is fully funded by the U.S. Department of Education.

The CARE Tutoring & Computer Lab provides access to academic support and technology for the FSU campus community. Students can receive one-on-one or group tutoring and supplemental instruction free-of-charge in the CARE Lab. FSU students also can utilize one of the 90 computer workstations for coursework. Staff are prepared to assist students in developing effective study skills, review materials to explore learning styles, develop self confidence in course work and reduce feelings of fear and failure.

Bridge to Graduate School is a program designed to prepare traditionally underrepresented students for applying to and succeeding in graduate school. Students participate in workshops and course activities that will help them understand the admissions processes, as well as learn about methods to help fund their graduate school education. Students must be classified as junior or senior level in order to apply for the program.

Lateral Admissions Programs: CARE provides an opportunity for traditionally underrepresented students to join our network of programs through one of our lateral admissions programs. The Transition, Engagement, & Academic Mentoring (TEAM) Program is a peer-mentoring program for any FSU first-year students. Students accepted into TEAM receive a peer mentor and participate in a variety of academic and engagement activities to help them transition to campus and connect to the FSU campus community. The College Success Program allows students who may be minority, low-income, first-generation, or non-traditional aged college students to apply to connect to CARE resources and support systems.

Pre-Collegiate Programs

College Reach Out Program (CROP) is a state-funded program established to identify, motivate, and prepare disadvantaged middle and high school students to pursue post-secondary education. Through supplemental academic assistance, enrichment activities, educational field trips, and college tours, CROP prepares students for the rigors of a college education.

The **University Experience Program** is the Summer residential component of CROP offering targeted high school students from socioeconomically dis-

advantaged backgrounds the opportunity to visit the Florida State University campus during the Summer. They attend courses and take part in cultural enrichment and college exposure activities.

The **Upward Bound Program (UBP)** is a federally-funded program that serves high school students from low socio-economic backgrounds. Located at Gadsden County High School in Gadsden County, Florida, Upward Bound offers developmental opportunities to students through a variety of educational activities, including an on-site computer lab dedicated to UBP participants. UBP staff also assists students in the development of personal and social skills that will help them complete high school and continue their formal education in a post-secondary setting.

For more information, refer to the "Academic Advising and Academic Support Services" chapter of this *General Bulletin*.

Center for Global Engagement (CGE)

The Mission of the Center for Global Engagement (CGE) is to facilitate international diversity and foster global understanding and awareness within the FSU community. The CGE is committed to enhancing FSU's internationalization initiatives by offering academic classes and several certificate programs designed to help develop a more intercultural and competent campus community. The Global Citizenship Certificate helps undergraduate students prepare for today's global society through a combination of curricular and co-curricular programs and the Global Partner Certificate provides training and workshops to increase intercultural competence for faculty and staff. The CGE provides a variety of social and cultural programs such as International Coffee Hour, Global Café, Engage Your World Intercultural Dialogue Series, and other intercultural programs to promote interaction and increase cultural understanding among all FSU students. The CGE works to increase international student enrollment by supporting programs bringing in funded international students through foreign government or third-party sponsors and developing special programs through agreements with partner institutions abroad to attract talented students to the University to complete their senior year and apply to graduate school. The CGE also facilitates both academic and short-term cultural exchange programs with over 45 international partner universities. The CGE also provides immigration services and ongoing support to international students and visiting scholars to ensure immigration compliance and to assist with their integration into the campus community.

The Center for Global Engagement is located in the Global and Multicultural Engagement building (The Globe) at *110 South Woodward Avenue, Tallahassee, FL 32306-4216*. For more information, visit *http://cge.fsu.edu/*, call *(850) 644-1702*, or e-mail *cge@fsu.edu*.

Center for Leadership & Social Change

With a mission to transform lives through leadership education, identity development, and community engagement, the **Center for Leadership & Social Change** works towards the following vision:

- Students and alumni are responsible citizens and effective leaders. They are aware of and engaged in the world around them and use their talents and means to create a more just and humane society.
- Students are aware of their values and multiple identities, including ability, age, class, ethnicity, faith structure, gender identity expression, nationality, race, sexual orientation, and socioeconomic status. They recognize the intersection of these identities and acknowledge that multiculturalism enhances the quality of life. From this understanding, students belong to and create intercultural communities that benefit from the value of difference.
- Students and alumni are known and respected for their leadership acumen and public service tradition. In their personal, professional, and creative communities, they readily seek and accept opportunities for life-long learning, meaningful influence, and positions of trust.

The Center offers more than 30 student programs related to service, leadership education, and identity development. For more information, contact the Center for Leadership & Social Change in the Dunlap Student Success Center at *100 South Woodward Avenue, Tallahassee, FL 32306*; *(850) 644-3342*; visit *http://www.thecenter.fsu.edu*; e-mail: *thecenter@fsu.edu.*

Counseling and Psychological Services

Counseling and Psychological Services, a department in the Division of Student Affairs, provides counseling services and programs to help students resolve psychological issues and personal concerns that interfere with academic progress, social development, and emotional well-being. Our goal is to help students function to the best of their abilities and make the most of their years at FSU. Because student fees cover these services, there is no out-of-pocket expense for any visit for all currently enrolled FSU Students. The services are provided by licensed psychologists, licensed mental health counselors, licensed clinical social workers, and trainees on varying levels. These services include but are not limited to brief individual therapy, group therapy, crisis intervention, consultation, online treatment options, and referrals.

Outreach presentations on mental-health topics and life skills are available to students, residence halls, student organizations, faculty, and staff. Those interested can complete the online request form at http://counseling.fsu.edu. Counseling and Psychological Services sponsors RENEW (Realizing Everyone's Need for Emotional Wellness), a peer-educator student organization whose mission is the promotion of emotional health and coping skills to FSU students. Students can receive individual instructional sections by RENEW members on various topics including time management, stress management, and test anxiety.

Enrolled students may initiate counseling services by walking in to Counseling and Psychological Services during regular office hours and requesting to speak with a clinician. When meeting with a clinician at walk-in, the clinician will determine the best plan for meeting the individual student's mental health needs. In addition, students who are experiencing a mental health crisis at a time outside of Counseling and Psychological Services' regular office hours have the option of calling the after-hours service at 850-644-TALK (8255) and immediately speaking with a clinician. Records of visits to the UCC as well as after-hours crisis calls are strictly confidential and are not included in the student's University records. Confidential information will not be released to anyone without written permission, unless there appears to be clear and imminent danger to the student or others.

Students who are aware that they will require longer-term treatment are encouraged to make arrangements for private care in the community before entering the University. However, if necessary, the Counseling and Psychological Services staff will make referrals for ongoing treatment in the Tallahassee community. Treatment outside the center will be at the student's expense.

Counseling and Psychological Services is located on the second floor of the Askew Student Life Center, Suite 250 with office hours between 8:00 a.m. and 4:00 p.m. on weekdays (Monday through Friday). For more information about Counseling and Psychological Services, call (850) 644-TALK (8255) or visit our Web site at http://counseling.fsu.edu. Counseling and Psychological Services is accredited by the International Association of Counseling Services, Inc.

Department of Student Support and Transitions

The Department of Student Support and Transitions (DSST) supports an inclusive academic environment through education, empowerment, crisis management, and advocacy of students in collaboration with campus and community partners. The DSST supports student success. This includes advocacy for students reporting concerns, victimization, and students in crisis. For more information, contact DSST at *4100 UCA*, call *(850) 644-2428* or *(850) 644-8504* (TDD), or visit *http://dsst.fsu.edu.*

Case Management Services works with students to provide emotional support, brief crisis counseling, and advocacy, identifying immediate needs and making appropriate referrals to campus/community resources. Cases are monitored, as needed, to ensure individuals receive the support necessary to improve their life situation. Case Managers may also assist in sending crisis notification letters to faculty. Case management is available to assist with questions, and to take referrals from any faculty, staff, family, friend, or community member concerned about an individual's well-being. For more information, please call *(850) 644-2428 or visit dsst.fsu.edu/cms/.*

New Student & Family Programs facilitates a welcoming and inclusive transition to Florida State University for all new students and their families. Orientation is the first program that helps ease the transition to Florida State University and college life. During Orientation, students learn about FSU offerings and resources, meet with an academic advisor, register for classes, and engage with their peers and upperclassmen students. Family members can attend a concurrent Orientation session, which provides insight and resources to help support their student throughout the college experience. To register for Orientation, students must be admitted and must have activated their *http://my.fsu.edu* account. Students will receive an email outlining next steps, including completing the Online Pre-Orientation module and then registering for Orientation. Additional information can be found in their To-Do List within their *http://my.fsu.edu* account.

Incoming students have a variety of resources available to them through New Student & Family Programs. The New 'Nole Web site, *http://dos.fsu.edu/newnole/*, was designed to be a one stop shop for incoming students, guiding them on what is next after they are admitted to FSU. The Web site features checklists, as well as information on how to submit immunization forms, how to find your academic advisor, and how to pay tuition. New Student & Family Programs also offers Seminoles in the City, a guide to off-campus living, and the First Year 'Nole e-Newsletter that goes out three times a semester to keep students informed on campus happenings, involvement opportunities, and

success strategies. New Student & Family Programs also hosts Ask a 'Nole, which helps students find their classes on the first day of school and get answers to general questions about FSU.

New Student & Family Programs also offers Family Connection, an organization of family members who are committed to supporting student success through communication, partnerships, and programs. Family Connection is free of charge and only requires activation of membership by registering at Orientation or visiting *http://dos.fsu.edu/family/*. Through Family Connection, family members receive resources like the Family Connection e-Newsletter and the Family Calendar. Family Connection Council helps manage the programs and activities offered by Family Connection. Throughout the year, Family Connection hosts events like the Garnet & Gold Silent Auction, FSU Chats, Coffee and Conversations, and Notes to Your 'Nole.

For more information about New Student & Family Programs or any of the programs and initiatives mentioned above, please visit *http://dsst.fsu.edu/nsfp/*. For questions, please contact New Student & Family Programs at *(850) 644-2785* or via e-mail at *DOS-NSFP@fsu.edu.*

The **Office of Accessibility Services (OAS)** is committed to ensuring universal access for each Florida State University student. Through the provision of academic, housing and dining accommodations, testing support, facilitation of equal access to programs and services, assistive technologies, and a welcoming space for students to feel part of the FSU community, the OAS creates an environment of success. Applications for students to utilize these services can be found on the OAS website or by visiting the office. In addition to the OAS Testing Center, the OAS maintains the **Theodore and Vivian Johnson Adaptive Technology Lab**, a facility that houses computers and adaptive equipment, which supports students with disabilities as they navigate their academic programs. Any student in need of accommodations should contact the Office of Accessibility Services *108 Student Services Building*, or call *(850) 644-9566* or *(850) 644-8504* (TDD), or visit *http://dsst.fsu.edu/oas*.

The **Victim Advocate Program** provides free, confidential advocacy services to victims of crime. An advocate is on-call twenty-four hours a day to respond to Florida State University students, faculty, and staff who are victimized, and to any person victimized on Florida State University's campus or by a member of the FSU community. The services offered include emotional support, evaluation of legal or medical options, crisis intervention, instructor notification, academic support, referrals to campus and community partners, and educational programming for the campus community. For information call *(850) 644-7161* or *(850) 644-2277*, or visit *http://dsst.fsu.edu/vap.* After hours, call *(850) 644-1234* and ask for an advocate.

The **Withdrawal Services** staff provides support to students and their families when a student's enrollment is unexpectedly interrupted for personal, medical, or mental health reasons, and/or other crises. The Withdrawal Advisor explains the withdrawal application process and its various stages, evaluates grade liability for completed coursework, refers students to their Academic Dean and offers other University support services as needed, notifies each student of the final decision, and maintains a University record of the completed withdrawal. Before meeting with the Withdrawal Advisor, students should meet with their Academic Dean to discuss the implications of withdrawing, the viability of their withdrawal application, and any alternative academic options that may exist. Academic Deans and their staff evaluate applications and make a final determination to approve or deny student withdrawals from a semester of enrollment. For more information call *(850) 644-1741* or *http://withdrawal.fsu.edu*.

The **Student Affairs Investigations and Assessment** team reviews reports of student organization misconduct that is not of a criminal or Title IX nature to review for possible violations of the Student Conduct Code or Student Organization Conduct Code. The Student Affairs Investigations and Assessment team will investigate reports of possible misconduct and provide a report to the Office of Student Conduct and Community Standards for follow up. For more information call (850) 644-2428.

Office of Fraternity and Sorority Life

The **Office of Fraternity and Sorority Life** advises and advocates for the more than 7,000 students involved with fraternities and sororities. These fifty-five organizations are divided into the following governing councils: twenty-three chapters of the Interfraternity Council (IFC), ten chapters of the Multicultural Greek Council (MGC), six chapters of the National Pan-Hellenic Council (NPHC), and seventeen chapters of the Panhellenic Association. Fraternities and sororities at Florida State University provide students with an opportunity to establish community and build a strong support group while furthering the ideals of scholarship, leadership and service. These organizations have been an integral part of the holistic education and development of students since 1904.

Oglesby Union, Askew Student Life Center, and FSU Flying High Circus

The **Oglesby Union** is the community center of student life on campus, hosting a variety of cultural, educational, social, and recreational activities. The Oglesby Union Complex is comprised of the Crenshaw, Davis, Turner, Student Services and Student Activities buildings as well as the Askew Student Life Center, Moore Auditorium and the Haskins Circus Complex. Union facilities include a student activities and involvement center; an entertainment club; restaurants; study and television lounges; an arts center and gallery; a bowling, billiards, and gaming center; lost and found; automatic teller machines; information center; student organization offices; meeting rooms; auditorium; and ballrooms. The Oglesby Union complex is also home to the Student Government Association, student mailboxes/post office, UPS Store, and Computer Lab.

The Oglesby Union coordinates multiple University-wide events including Welcome Week and Family Weekends. Welcome Week welcomes incoming and returning students the week prior to the beginning of Fall semester classes. Family Weekends welcome parents and families to campus to share in the FSU experience with their students in the Fall, and the Spring.

The Oglesby Union comprises multiple offices providing services, support, and programming for the university community. The Art Center offers a variety of classes and programs including Paint-a-Pot, Painting Express, and a full-service frame shop. You can enjoy rotating exhibits and artwork at the Oglesby Gallery, located on the second floor of the Oglesby Union in the Krentzman Lounge. Crenshaw Lanes has been a tradition at FSU since 1964. Featuring twelve bowling lanes and ten billiards tables, Crenshaw Lanes provides fun and healthy activities for FSU students. The Union provides space that can be reserved for a variety of events through the Guest Services department. Space may be reserved for meetings, conferences, social events, and banquets. Recognized Student Organizations may request space by stopping by the **Campus Event Services** office in the Krentzman Lounge of Oglesby Union, visiting them online at *https://reservations.dsa.fsu.edu/* or by calling them at *(850) 644-6083*.

Union Productions sponsors over one hundred and twenty programs and events a year, including an array of bands, comedians, and special events through the Oglesby Union's hotspot—The Club Downunder, and other venues on and off campus.

The **Askew Student Life Center (ASLC)** is a programming space featuring a 380-seat state-of-the-art theatre, video and computer gaming, meeting space, and a coffee shop. The University Housing offices and the University Counseling Center are all located in the ASLC.

Florida State University's **Flying High Circus**, a component of the Union, is one of only two collegiate circuses in the nation. Founded in 1947, the circus has delighted audiences at home and abroad with performances such as juggling, balancing, and aerial acts. Students work as their own riggers, put up the big top, and assist with audio and lighting production. The Flying High Circus performs on campus in the Fall during Family Weekend and in the Spring for the Annual Home Show Series. A group of circus performers performs in the Summer in Callaway Gardens, and another group hosts a Camp for Kids in Tallahassee.

The **Oglesby Union Board** represents the University community to ensure that the facilities, services, and amenities offered by the Oglesby Union Complex meet the needs and interests of their constituents. The Board is made up of twelve students, two faculty, two staff, and one alumnus. Union Board elections take place in the Spring semester. The Union Board office is located in the SAC (*A305*).

For more information on the Oglesby Union and all of the departments mentioned above, please visit *http://union.fsu.edu*.

Student Conduct and Community Standards

The department of Student Conduct and Community Standards administers student conduct procedures in accordance with the Student Conduct Code and maintains official student conduct records. An emphasis is placed upon educating students about their rights and responsibilities as members of the University community. University codes and policies pertaining to students can be found in the Florida State University Student Handbook and the "Academic Regulations" chapter of this General Bulletin. For more information regarding student conduct procedures, call (850) 644-5136, or visit *http://dsst.fsu.edu/srr*.

Student Engagement

The department of Student Engagement cultivates environments of student connection, engagement, inclusion, and experiential learning. We create and support tailored opportunities for students' personal and professional growth, where they practice leadership, use voice, manage funds and resources, and

are actively engaged members of their community. Whether getting involved in a recognized student organization (RSO), running for office, showing your school spirit at Homecoming or a True Seminole Tailgate, participating in Market Wednesday or a Student Life Cinema event, or giving back to our community through the Big Event or Dance Marathon, there are dozens of ways for students to get involved and engaged. The Student Governance and Advocacy staff supports the Student Government Association, identity-based student unions, Congress of Graduate Students, Freshmen and Transfer Student Leadership initiatives, student organization accounting and money management, student publications and media, campus tradition programming, and student-driven events, vigils, and activities.

Student Government Association (SGA) is the student's voice at Florida State University. The mission of SGA is to provide "quality leadership for, and accountability to, its constituency by recognizing that strength arises from diversity, engagement, and dialogue". Elected and appointed officials enjoy many opportunities to acquire leadership and administrative skills and to serve their fellow students and the University. SGA annually allocates approximately $13 million of activity and service fees. SGA funds or partially funds activities of the student senate, the executive branch, student government agencies, and numerous student organizations and University units. Those units receiving funds include the Campus Recreation, Oglesby Union, Child Development Center, COGS, Homecoming, the Golden Tribe Lecture Series, the Asian American Student Union, the Black Student Union, the Center for Participant Education, the Hispanic/Latino Student Union, the Inter-Residence Hall Council, the Pride Student Union, the Women Student Union, the Veteran Student Union, Student Council for Undergraduate Research and Creativity, Class Councils, First Responders Unit, SAFE (escort service), the SGA Publications Office, the Office of Governmental Affairs, WVFS V-89 (student-run radio station), and the College Leadership Councils. This means that a majority of events on campus are free to FSU students. For more information on these offices or services, please visit our website at *http://www.sga.fsu.edu.*

The Congress of Graduate Students (COGS) is an elected body of all post-baccalaureate, graduate, professional, and doctoral students at the University. COGS is a unified voice and advocate for all graduate-related matters. It also offers travel grants to graduate students, funds graduate organizations, and sponsors a variety of programs and services.

Student Organizations and Involvement supports more than 650 student organizations on-campus as well as FSUs Homecoming, True Seminole Tailgates, Dance Marathon, The Big Event, Relay for Life, Welcome Week and other campus events! Students can visit Nole Central to learn more about the array of student organizations or meet fellow students and organizations each Wednesday at a favorite FSU tradition, Market Wednesday! If you're not sure where to start stop by our office for involvement consultation or visit us online at *https://nolecentral.dsa.fsu.edu*.

The **Student Life Cinema** is one of the nation's leading campus movie programs, showing a variety of free films to FSU students each week in the 380-seat state-of-the-art theatre. Selected by FSU students, movies include blockbusters, foreign films, classics, midnight favorites, indie hits, and advance screenings. Beyond films, ASLC Gaming offers opportunities for the casual gamer to the professionals. In addition to Alienware Aurora R7s and high-speed Wi-fi, the ASLC Cyber Café is equipped with various game consoles, vintage and new! Bi-weekly events like Tabletop Tuesdays and Thursday Throwdowns serve audiences from board game lovers to competitive fighting game enthusiasts. Our monthly Final Friday has dozens of freeplay games, with Rock Band on stage, VR, and Just Dance. Our student-run coffee shop, The Grindhouse, serves lattes, cappuccinos, smoothies, muffins, and more! Grab a bite and relax with friends in our lobby. Learn more online at *https://union.fsu.edu/movies*.

University Health Services

University Health Services (UHS) provides a coordinated continuum of care through prevention, intervention, and treatment services. Services include general medical care, priority care, women's care, psychiatry, annuals, allergy injection clinic, immunizations, nutrition, confidential HIV testing, diagnostic imaging, physical therapy, and a medical response unit. UHS bills the student's insurance for any charges incurred.

Additionally, there are vendors providing dental, chiropractic, and massage care in the Health and Wellness building.

UHS clinical staff includes board-certified physicians, psychiatrists, advanced registered nurse practitioners, physician assistants, licensed practical nurses, x-ray technologists, registered nurses, physical therapists, and dieticians. The health center has more than one hundred full-time employees and also employs many part-time and student staff members.

The 140,000 square foot Health and Wellness facility has ample space dedicated to comprehensive prevention and treatment services for FSU students. UHS offers a volunteer Medical Response Unit which trains students as advanced first responders who then serve the campus community.

All students must meet State Board of Education immunization requirements. Immunization requirements for FSU are explained in the Health Compliance checklist, which can be found at *http://www.uhs.fsu.edu*. Immunization documents can be faxed, mailed, hand-delivered, or submitted through the FSU electronic drop box to the Health Compliance Office. Immunization documentation forms must be submitted to the Health Compliance Office in sufficient time to be processed before the student will be able to register for classes.

All incoming full-time students are required to have health insurance coverage. As a condition of their admittance to Florida State University, all non-United States citizens on a J-1 or F-1 visa must have appropriate health insurance regardless of their credit hour load. Florida State University sponsors reasonably priced policies that meet insurance requirements for both domestic and international students. Information about the policies available for students is posted on the student insurance Web site at *http://www.studentinsurance.fsu.edu*. For student insurance policy information, students may call the Health Compliance Office at *(850) 644-3608*. Other insurance options for international students are also accessible on the student insurance Web site. Medical care outside the health center facility is the financial responsibility of the student.

The UHS **Center for Health Advocacy and Wellness** is dedicated to assisting FSU students in their academic success through individual, group, and population-based health and wellness initiatives. To maximize campus wellness, academic and personal success are supported by:

- Addressing environmental factors that reduce risk
- Educating about healthy lifestyles
- Promoting positive choices and behaviors
- Providing a coordinated continuum of care

The Center for Health Advocacy and Wellness also offers internships and educational opportunities. The UHS Center for Health Advocacy and Wellness mentors, trains, and advises "Healthy Noles," peer health educators. Healthy Noles are trained Peer Health Educators who make a positive impact on campus health and wellness through campus events, presentations and discussions with peers. Healthy Noles also have the opportunity to advocate for student health while working closely with CHAW staff. Members of Healthy Noles develop competency in public speaking, program development, and public health knowledge.

All students are encouraged to visit the University Health Services Web site at *http://www.uhs.fsu.edu* for more complete information, or call *(850) 644-6230* or *(850) 644-4567* for an appointment.

University Housing

University Housing provides exceptional living opportunities for students to succeed academically. Housing is offered in over 6,700 beds for full-time, degree-seeking, fee-paying students. Residence hall staff members seek to create living environments that foster the lifelong learning of every resident through the promotion of responsible citizenship, scholarship, appreciation of differences, personal wellness, and involvement. Rental rates and information about contracting for on campus housing can be found at *http://www.housing.fsu.edu*. For more information, see the "Housing" chapter of this *General Bulletin*.

Child Care

The FSU Childcare and Early Learning Program provides, for a fee, care and educational experiences for approximately 133 children, ages six weeks to four years of age. The center is located at 612 Copeland Street, just a quick walk from the main campus. The hours for the center are 7:30 a.m. to 5:30 p.m. Monday through Friday when classes at FSU are in session. Children of Florida State University students, faculty, staff, Alumni, as well as children of the greater community are eligible for services. Children of Florida State University students, faculty, and staff are given priority for enrollment. Space is limited, so please apply early. Applications are available at *http://www.childcare.fsu.edu*.

The FSU Childcare and Early Learning Development Program also provide sites for research by faculty members and graduate students in a variety of areas as well as a laboratory setting in which students may observe, complete practicums/internships, or work with young children. For additional information, contact *FSU Childcare and Early Learning Programs, 612 Copeland St, Tallahassee, FL 32304-4174, (850) 644-7970*, or visit the Web site at *http://www.childcare.fsu.edu*.

DSA Strategic Planning and Assessment

The Division of Student Affairs Strategic Planning & Assessment provides leadership, expertise, and technical assistance to the Division of Student Affairs in developing, conducting, and maintaining assessment, evaluation, and research projects. Results from these projects pro-vide the DSA and the overall university community with an increased understanding of the impact of student affairs.

FSU Police Department

Florida State University's **Police Department** is responsible for all safety and law enforcement functions on campus. The four divisions of the department are administration, police operations, investigations, and support services. The office of police operations provides motor, bicycle, and foot patrol of the campus twenty-four hours daily. The Campus Police department is comprised of sworn law-enforcement officers and unsworn personnel to promote campus safety by presenting public-safety programs in classes, residence halls, and Greek and scholarship houses. The office of investigative services provides investigative expertise in matters involving violations on campus of municipal ordinances and applicable federal and state laws.

Florida State University's Annual Campus Safety and Fire Report, in compliance with the Campus Security Act of 1990, is published and distributed annually online, with hard-copy available upon request. The Campus Safety Report describes all safety programs and security services available at the University. It contains crime statistics; safety tips and emergency telephone numbers; policies concerning alcohol and drug use, emergency notifications, crime prevention, and sexual assault; and the process for reporting of crimes and other safety related resources. Copies are available through the FSU Police Department, online at *http://police.fsu.edu/* and via the **SeminoleSafe** App for the FSU Police Department.

The Student Government Association in partnership with the FSU Police Department offers **Student Alert Force and Escort (SAFE) Connection**, a free service available to students, faculty, and staff. Arrangements for an escort should be made by calling 644-SAFE (7233). Operating hours vary throughout the year. For more details, please visit *http://police.fsu.edu/*.

The **Blue Light Trail**, comprising over 430 strategically placed light poles with emergency call boxes, provides well-lit pathways around campus; additional light poles are currently under construction as part of ongoing renovation and construction projects. By pressing the call box button, students are connected with the campus police dispatcher. Students should take note of where the lights and call boxes are located and plan their routes at night accordingly. For more information, please refer to *http://www.its.fsu.edu/Communications/Emergency-Blue-Light-Telephones-EBLT*.

FSU ALERT is Florida State University's emergency notification system. If there is a condition which threatens the health and safety of persons on campus, University officials will warn the campus community using one or more of the available twenty-eight methods. For more information about FSU Alerts please visit *www.alerts.fsu.edu*.

Radio and Television

The University-owned and operated **WFSU-FM** and **WFSQ-FM** are Tallahassee's only listener-supported, noncommercial public radio stations. Listeners tune into classical music, jazz, big band, and new-age music on WFSQ, and listen to local and state news and information programs through National and Florida Public Radio on WFSU.

Florida State University students interested in a career in broadcasting are encouraged to participate in the station's volunteer and internship programs. Participants are given an opportunity to work within a professional public-radio setting and gain valuable experience in many facets of the station's operation, including programming, production, announcing, public relations, and management.

WFSU-TV is an award-winning, noncommercial public television station licensed to the State Board of Education and operated by Florida State University. One of the fastest growing PBS stations in the nation, it recently extended coverage to the western area of the state transmitting on Channel 56, **WFSG-TV**, Panama City.

Both WFSG-TV and WFSU-TV broadcast PBS favorites and locally produced programs that offer news and feature stories, sports events, and community-interest spots.

Fund-raisers, staffed entirely by volunteers, give students an opportunity to gain broadcasting experience as members of the camera crew or production staff. Another way to learn production, public relations, or fund-raising techniques is through a professional-level internship, available only to a few students who are willing to invest a great deal of time and energy.

WVFS Tallahassee 89.7FM, the Voice of Florida State, is FSU's round-the-clock student-run radio station. An Affiliated Project of the Student Government Association and the College of Communication and Information, WVFS's mission is two-fold: to provide diversity in radio programming for the campus and community while serving as a top-notch training facility for those interested in gaining experience in radio station operations. WVFS airs new and different music, with an emphasis on independent artists, a wide array of specialty shows, and news and sports programming pertinent to students and the greater community.

Students enrolled at Florida State University are eligible to work at WVFS, regardless of major or class standing. Staff members work on a volunteer basis and may also earn class credit via School of Communication courses offered through the radio station (including Formative Experience credit). WVFS recruits for all positions (News, Sports, Announcing, Continuity, Development, Public Relations, and Production) three times a year, always during the first week of the fall and spring semesters, and mid-April for the summer. No experience is required. Students can tune in to 89.7FM—or stream online at *https://wvfs.fsu.edu*—for more information.

Seminole Dining

Nationally ranked culinary program Seminole Dining offers a variety of delicious dining options to conquer your hunger. On Florida State University's campus, Seminole Dining operates three all-you-care-to-eat residence dining halls and more than 30 retail locations, including popular national brands and FSUnique restaurants.

In need of a snack? Seminole Dining operates multiple convenience stores and school-specific cafes. Want coffee or tea? Seminole Dining boasts two Starbucks and one Argo Tea, and serves Tallahassee favorites, Lucky Goat Coffee Co. and RedEye Coffee. Up late studying? No problem. Several of our locations are open late or even 24 hours. Dietary restrictions or food allergies? We have a variety of menu items to meet most requests, plus a full-time dietitian who can shape a balanced diet for you. We also offer a variety of vegan and vegetarian options in our dining halls and retail locations. With Seminole Dining's flexible meal plans, you will always have something to eat! We believe well-balanced, nutritious meals leads to academic excellence!

All dining locations accept cash, Dining Dollars, Visa, MasterCard, American Express, and the FSUCard. Visit the FSUCard Center in the Woodward Parking Garage to sign up and save money with a meal plan or to add money to your Dining Dollars account. New locations and events are always in the works. For updated information on all Seminole Dining has to offer, please visit *https://seminoledining.sodexomyway.com/* or call *(850) 644-3663*.

Student Veterans Center

For information about the programs and services offered by the Student Veterans Center, please refer to the Student Veteran Information chapter.

Transportation and Parking Services

Transportation and Parking Services (TAPS) is responsible for the administration of the parking and transportation programs on campus. The University requires students, faculty, staff, and visitors that park on campus to have a valid Florida State University parking permit. Student virtual parking permits (as well as many other permits and hang-tags) are valid from August 15 of one year to August 15 of the next year. Permit enforcement hours are from 7:30 a.m. to 4:30 p.m., Monday through Friday. All other parking regulations are enforced twenty-four hours a day. Transportation and Parking Services is located at *104 North Woodward Avenue*, 8:00 a.m. to 5:00 p.m., Monday through Friday. Student permits can be obtained online at *http://transportation.fsu.edu* or by coming to the office. Temporary permits are also available online or in the office.

The office has the authority to ticket, tow, or boot (immobilize) illegally parked vehicles and to charge for late payments of citations. Second level appeals of citations are reviewed by the Transportation Violations Appeals Board, an administrative body representative of the University community.

Parking on the University campus is limited. Students are strongly encouraged to walk, bike, carpool, or use **Seminole Express**, the University's free campus bus service. The Seminole Express has seven routes that serve on and off campus locations. The buses operate from 7:00 a.m. to 8:00 p.m., Monday through Friday during the Fall and Spring semesters, and from 7:00 a.m. to 5:00 p.m. in the Summer. Students needing evening transit services around campus and surrounding neighborhoods can use the **Nite Nole** bus route, which operates from 8:00 p.m. to 3:00 a.m., Monday through Saturday during the Fall and Spring semesters. Students, faculty, and staff with a valid FSUCard may also ride any StarMetro bus (City of Tallahassee public transportation) to any of the designated bus stops within the city at no charge. For more information about these and other transportation and parking services please visit: *http://transportation.fsu.edu*.

Bicycles on Campus

A bicycle can be a major investment, so be sure to protect your bike by registering it with FSUPD. This is a free service and is useful if your bike is stolen or tampered with. When parking your bike, make sure to secure it with at least one form of lock. Bicycle racks are available outside of almost every building on campus and are monitored by FSUPD. All Seminole Express and StarMetro buses are also equipped with bike racks so that you can bring your bicycle with you wherever you go. For more information, visit *https://transportation.fsu.edu/bicycles*.

FLORIDA'S STATEWIDE COURSE NUMBERING SYSTEM

Courses in this *General Bulletin* are identified by prefixes and numbers that were assigned by **Florida's Statewide Course Numbering System (SCNS)**. This numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online SCNS to obtain course descriptions and specific information about course transfer between participating Florida institutions. This information is available on the SCNS Web site, at *https://flscns.fldoe.org/*.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to the type of institution and discipline field or specialization.

Course Prefixes and Numbers

The course prefix and each digit in the course number have a meaning in the SCNS. The listing of prefixes and associated courses is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course profiles."

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

The course number is a four-digit designator for the course level (first digit), century (second digit), decade (third digit), and unit (last digit). In the sciences and certain other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course that has the same prefix and course number but meets at a different time or place.

Example of Course Identifier

For example, a freshman composition skills course is offered by eighty-four different public and non-public postsecondary institutions. Each institution uses "ENC_101" to identify its freshman composition skills course.

Prefix	Level Code	Century Digit	Decade Digit	Unit Digit	Lab Code
	(first digit)	(second digit)	(third digit)	(fourth digit)	
ENC	1	1	0	1	
In the SCNS taxonomy, "ENC" means "English Composition"	Represents the year in which students normally take the course at a specific institution, Freshman in this case	Freshman Composition	Freshman Composition Skills	Freshman Composition Skills I	No laboratory component in this course

General Rule for Course Equivalencies

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, as listed below in "Exception to the General Rule for Equivalency."

Transfer of any successfully completed course from one participating institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions.

For example, ENC 1101 is offered at a community college. The same course is offered at a state university as ENC 2101. A student who has successfully completed ENC 1101 at a Florida College System institution is guaranteed to receive transfer credit for ENC 2101 at the state university if the student transfers. The student cannot be required to take ENC 2101 again since ENC 1101 is equivalent to ENC 2101.

Note: Credit generated at institutions on the quarter-term system may not transfer the equivalent number of credits to institutions on semester-term systems. For example, 4.0 quarter hours often transfers as 2.67 semester hours.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, states:

> Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency

Since the initial implementation of the SCNS, specific disciplines or types of courses have been accepted from the guarantee of transfer for equivalent courses. These include courses that must be evaluated individually or courses in which the student must be evaluated for mastery of skill and technique. The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

A. Courses not offered by the receiving institution
B. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course in question.
C. Courses in the _900–999 series are not automatically transferable, and must be evaluated individually. These include such courses as Special Topics, Internships, Apprenticeships, Practica, Study Abroad, Theses, and Dissertations
D. Applied academics for adult education courses
E. Graduate courses
F. Internships, apprenticeships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from _900–999
G. Applied courses in the performing arts (Art, Dance, Interior Design, Music, and Theatre) and skills courses in Criminal Justice (academy certificate courses) are not guaranteed as transferable. These courses need evidence of achievement (e.g., portfolio, audition, interview, etc.).

Courses at Nonregionally Accredited Institutions

The SCNS makes available on its home page (*https://flscns.fldoe.org/*) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all non-public institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.

SCNS Contact Information

Questions about the SCNS and appeals regarding course credit transfer decisions should be directed to Andrea White in the *Office of Faculty Development and Advancement* or the *Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, FL 32399-0400*.

Special reports and technical information may be requested by calling the *Statewide Course Numbering System* office at *(850) 245-0427* or at *https://flscns.fldoe.org/*.

COURSE PREFIXES, DEFINITIONS, AND LOCATIONS

How to Find a Course:

The following list presents course subjects alphabetically by letter prefix. The column to the right contains the school, department, and/or program(s) offering that course subject. The schools, departments, and/or programs can be found, alphabetically, in the "Academic Departments and Programs" section of this *Bulletin*, where each course offered in a given program is listed, including title, description, and credit hours.

Course Symbols

Prefix	Definition	Program(s)
ABT	Arabic Culture in Translation or Translation Skills	Modern Languages and Linguistics
ACG	Accounting: General	Accounting
ADE	Adult Education	Educational Leadership and Policy Studies
ADV	Advertising	Communication Corporate Communication Professional Communication
AFA	African-American Studies	African-American Studies
AFH	African History	History
AFR	Aerospace Studies	Aerospace Studies
AMH	American History	History
AML	American Literature	English
ANG	Anthropology: Graduate	Anthropology
ANT	Anthropology	Anthropology
APK	Applied Kinesiology	Education Psychology and Learning Systems Nutrition, Food and Exercise Sciences Sport Management
ARA	Arabic Language	Modern Languages and Linguistics
ARE	Art Education	Art Art Education
ARH	Art History	Art Art History Classics
ART	Art	Art
ASH	Asian History	Asian Studies Classics History
ASL	American Sign Language	Communication Science and Disorders
ASN	Asian Studies	Asian Studies
AST	Astronomy	Physics
ATR	Athletic Training	Nutrition, Food and Exercise Sciences
BCC	Basic Clinical Clerkships	Medicine
BCH	Biochemistry (Biophysics)	Biological Science Biomedical Sciences Chemistry and Biochemistry
BME	Biomedical Engineering	Chemical and Biomedical Engineering
BMS	Basic Medical Sciences	Biomedical Sciences Medicine
BOT	Botany	Biological Science
BSC	Biological Sciences	Biological Science Biomedical Sciences
BUL	Business Law	Risk Management/Insurance, Real Estate and Legal Studies
CAP	Computer Applications	Computer Science Scientific Computing
CBH	Comparative Psychology and Animal Behavior	Psychology
CCE	Civil Construction Engineering	Civil and Environmental Engineering
CCJ	Criminology and Criminal Justice	Criminology and Criminal Justice Public Safety and Security
CDA	Computer Design/Architecture	Computer Science Criminology and Criminal Justice
CEG	Civil Geotechnical Engineering	Civil and Environmental Engineering
CEN	Computer Software Engineering	Computer Science
CES	Civil Engineering Structures	Civil and Environmental Engineering
CGN	Civil Engineering	Civil and Environmental Engineering
CGS	Computer General Studies	Accounting Computer Science Educational Leadership and Policy Studies Information Teacher Education
CHD	Child Development	Family and Child Sciences
CHI	Chinese	Modern Languages and Linguistics
CHM	Chemistry	Biomedical Sciences Chemistry and Biochemistry
CHT	Chinese Culture in Translation or Translation Skills	Modern Languages and Linguistics
CIS	Computer Science and Information Systems	Computer Science Criminology and Criminal Justice
CJC	Corrections	Criminology and Criminal Justice Public Safety and Security
CJE	Law Enforcement	Criminology and Criminal Justice Public Safety and Security
CJJ	Juvenile Justice	Criminology and Criminal Justice Public Safety and Security
CJL	Law and Process	Criminology and Criminal Justice Public Safety and Security
CLA	Classical and Ancient Studies	Classics History
CLP	Clinical Psychology	Biomedical Sciences Psychology
CLT	Classical Culture in Translation or Translation Skills	Classics
CNT	Computer Networks	Computer Science Criminology and Criminal Justice
COA	Consumer Affairs	Retail, Merchandising and Product Development
COM	Communication	Communication Corporate Communication Molecular Biophysics Professional Communication
COP	Computer Programming	Business Analytics, Information Systems and Supply Chain Computer Science Criminology and Criminal Justice Information
COT	Computing Theory	Computer Science

CPO	Comparative Politics	Political Science Public Safety and Security
CPS	Comparative Policy Studies (Multinational)	Social Science
CRW	Creative Writing	English Professional Communication
CTE	Clothing and Textiles	Retail, Merchandising and Product Development
CWR	Civil Water Resources	Civil and Environmental Engineering
DAA	Dance, Emphasis on Activity	Dance
DAE	Dance Education	Dance
DAN	Dance	Dance
DEM	Demography	Sociology
DEP	Developmental Psychology	Biomedical Sciences Educational Psychology and Learning Systems Psychology
DIE	Dietetics	Nutrition, Food and Exercise Sciences
DIG	Digital Media	Art Scientific Computing
DSC	Domestic Security	Public Safety and Security
EAB	Experimental Analysis of Behavior	Biomedical Sciences Psychology
EAP	English as a Second Language for Academic Purposes	Teacher Education
EAS	Aerospace Engineering	Mechanical Engineering
EBD	Education: Emotional/Behavioral Disorders	Teacher Education
ECH	Engineering: Chemical	Chemical and Biomedical Engineering
ECO	Economics	Economics
ECP	Economic Problems and Policy	Economics Finance
ECS	Economic Systems and Development	Economics
ECT	Education: Career/Technical	Educational Leadership and Policy Studies
EDA	Educational Administration	Educational Leadership and Policy Studies
EDE	Education: Elementary	Teacher Education
EDF	Education: Foundations and Policy Studies	Educational Leadership and Policy Studies Educational Psychology and Learning Systems Teacher Education
EDG	Education: General	Educational Leadership and Policy Studies Educational Psychology and Learning Systems Teacher Education
EDH	Education: Higher	Educational Leadership and Policy Studies
EDM	Education: Middle School	Teacher Education
EDP	Educational Psychology	Educational Psychology and Learning Systems
EDS	Education Supervision	Teacher Education
EEC	Education: Early Childhood	Teacher Education
EEE	Engineering: Electrical and Electronic	Electrical and Computer Engineering
EEL	Engineering: Electrical	Electrical and Computer Engineering
EES	Environmental Engineering Science	Civil and Environmental Engineering
EEX	Education: Exceptional Child-Core Competencies	Biomedical Sciences Teacher Education
EGI	Education: Gifted	Educational Psychology and Learning
EGM	Engineering Science	Civil and Environmental Engineering Mechanical Engineering
EGN	Engineering: General	Civil and Environmental Engineering Industrial and Manufacturing Engineering Mechanical Engineering Statistics
EGS	Engineering: Support	Chemical and Biomedical Engineering
EIN	Industrial Engineering	Industrial and Manufacturing Engineering
ELD	Education: Specific Learning Disabilities	Teacher Education
EMA	Materials Engineering	Industrial and Manufacturing Engineering Mechanical Engineering
EME	Education: Technology and Media	Educational Leadership and Policy Studies Educational Psychology and Learning Systems Teacher Education
EML	Engineering: Mechanical	Mechanical Engineering
EMR	Education: Mental Retardation	Teacher Education
ENC	English Composition	English Geography Molecular Biophysics
ENG	English: General	English
ENL	English Literature	English
ENT	Entrepreneurship	Biomedical Sciences Medicine
ENV	Engineering: Environmental	Civil and Environmental Engineering
EOC	Ocean Engineering	Earth, Ocean, and Atmospheric Science
ESC	Earth Science	Earth, Ocean, and Atmospheric Science
ESI	Industrial/Systems Engineering	Industrial and Manufacturing Engineering
EUH	European History	Classics History
EUS	European Studies	Russian and East European Studies
EVI	Education: Visually Impaired-Blind	Teacher Education
EVR	Environmental Studies	Earth, Ocean, and Atmospheric Science Geography
EXP	Experimental Psychology	Psychology
FAD	Family Development	Family and Child Sciences
FIL	Film	Communication Motion Picture Arts
FIN	Finance	Finance
FLE	Foreign Language Education	Classics Teacher Education
FOL	Foreign Languages	Modern Languages and Linguistics
FOS	Food Science	Nutrition, Food and Exercise Sciences
FOT	Foreign Languages (In Translation)	Modern Languages and Linguistics
FOW	Foreign Languages, Comparative Literature (Writings)	Modern Languages and Linguistics
FRE	French Language	Modern Languages and Linguistics
FRT	French Culture in Translation or Translation Skills	Modern Languages and Linguistics
FRW	French Literature (Writings)	Modern Languages and Linguistics
FSS	Food Service Systems	Nutrition, Food and Exercise Sciences
GEA	Geography: Regional Areas	Geography

GEB	General Business	Accounting Business Analytics, Information Systems and Supply Chain Finance Management Marketing
GEO	Geography: Systematic	Biomedical Sciences Geography
GER	German	Modern Languages and Linguistics
GET	German Culture in Translation or Translation Skills	Modern Languages and Linguistics
GEW	German Literature (Writings)	Modern Languages and Linguistics
GFD	Geophysical Fluid Dynamics	Scientific Computing
GIS	Geography: Information Science	Geography
GLY	Geology	Earth, Ocean, and Atmospheric Science
GMS	Graduate Medical Sciences	Biomedical Sciences Medicine
GRA	Graphic Arts	Art
GRE	Classical Greek (Language Study)	Classics
GRW	Classical Greek Literature (Writings)	Classics Religion
HBR	Modern Hebrew Language	Modern Languages and Linguistics Religion
HEE	Home Economics Education	Family and Child Sciences
HFT	Hospitality Management	Hospitality
HIS	General History and Historiography	History
HMG	Hospitality Management: Graduate	Hospitality
HOE	Home Economics: General	Family and Child Sciences
HPS	History and Philosophy of Science	History and Philosophy of Science Religion
HSC	Health Sciences	Biomedical Sciences Nutrition, Food and Exercise Sciences Public Health Social Science
HUM	Humanities	Humanities Modern Languages and Linguistics
HUN	Human Nutrition	Nutrition, Food and Exercise Sciences
IDC	Interdisciplinary Computing	Information
IDH	Interdisciplinary Honors	Educational Psychology and Learning Systems
IDS	Interdisciplinary Studies	Art Art History Anthropology Biological Science Classics Communication Communication Science and Disorders Criminology and Criminal Justice Dance Earth, Ocean, and Atmospheric Science Economics Educational Psychology and Learning Systems English Family and Child Sciences Geography History History and Philosophy of Science Humanities Information International Affairs Management Medicine Modern Languages and Linguistics Motion Picture Arts Music Philosophy Political Science Professional Communication Psychology Religion Social Science Sociology Sport Management Statistics Teacher Education Theatre
IHS	Interdisciplinary Health Sciences	Biomedical Sciences Medicine
IND	Interior Design	Interior Architecture and Design
INP	Industrial and Applied Psychology	Psychology
INR	International Relations	International Affairs Political Science
INS	International Studies	International Affairs
ISC	Interdisciplinary Sciences	Biological Science Chemistry and Biochemistry Computer Science Earth, Ocean, and Atmospheric Science Materials Science and Engineering Psychology Public Safety and Security Science Teaching Scientific Computing
ISM	Information Systems Management	Business Analytics, Information Systems and Supply Chain
ISS	Interdisciplinary Social Sciences	Biomedical Sciences Social Science
ITA	Italian Language	Modern Languages and Linguistics
ITT	Italian Culture in Translation or Translation Skills	Modern Languages and Linguistics

ITW	Italian Literature (Writings)	Modern Languages and Linguistics
JPN	Japanese	Modern Languages and Linguistics
JPT	Japanese Culture in Translation or Translation Skills	Modern Languages and Linguistics
JPW	Japanese Literature (Writings)	Modern Languages and Linguistics
LAE	Language Arts and English Education	English Teacher Education
LAH	Latin American History	History
LAS	Latin American Studies	Latin American and Caribbean Studies
LAT	Latin (Language Study)	Classics
LAW	Law	Law
LDR	Leadership Studies	Educational Leadership and Policy Studies
LEI	Leisure	Event Management Recreation, Tourism and Events
LIN	Linguistics	Anthropology Communication Science and Disorders English Modern Languages and Linguistics Teacher Education
LIS	Library and Information Studies	Biomedical Sciences Information Teacher Education
LIT	Literature	English
LNW	Latin Literature (Writings)	Classics
MAA	Mathematics: Analysis	Mathematics
MAC	Mathematics: Calculus and Pre-calculus	Mathematics
MAD	Mathematics: Discrete	Mathematics Scientific Computing
MAE	Mathematics Education	Mathematics Teacher Education
MAN	Management	Business Analytics, Information Systems and Supply Chain Finance Management Marketing
MAP	Mathematics Applied	Earth, Ocean, and Atmosphere Science Mathematics Scientific Computing
MAR	Marketing	Business Analytics, Information Systems and Supply Chain Marketing
MAS	Mathematics: Algebraic Structures	Mathematics
MAT	Mathematics	Mathematics
MCB	Microbiology	Biological Science
MDE	Medical Electives	Medicine
MDU	Undergraduate Medicine Courses	Biomedical Sciences
MET	Meteorology	Earth, Ocean, and Atmospheric Science
MGF	Mathematics: General and Finite	Mathematics
MHF	Mathematics: History and Foundations	Mathematics
MHS	Mental Health Services	Educational Leadership and Policy Studies Educational Psychology and Learning Systems Teacher Education
MMC	Mass Media Communication	Communication Corporate Communication Professional Communication
MOB	Molecular Biophysics	Molecular Biophysics
MSL	Military Science and Leadership	Military Science
MTG	Mathematics: Topology and Geometry	Mathematics
MUC	Music: Composition	Music
MUE	Music Education	Music
MUG	Music: Conducting	Music
MUH	Music: History/Musicology	Music
MUL	Music Literature	Music
MUM	Music: Commercial/Management/ Administration	Music
MUN	Music Ensembles	Music
MUO	Music: Opera/Musical Theatre	Music
MUR	Music: Church	Music
MUS	Music	Music
MUT	Music: Theory	Music
MUY	Music: Therapy	Music
MVB	Applied Music: Brasses	Music
MVH	Historical Instruments	Music
MVJ	Applied Music: Jazz	Music
MVK	Applied Music: Keyboard	Music
MVO	Applied Music: Other	Music
MVP	Applied Music: Percussion	Music
MVS	Applied Music: Strings	Music
MVV	Applied Music: Voice	Music
MVW	Applied Music: Woodwinds	Music
NGR	Nursing: Graduate	Nurse Anesthesia Nursing
NSG	Nursing	Nursing
NSP	Nursing: Special	Nursing
NUR	Nursing: Generic Undergraduate	Biomedical Sciences Nursing
OCB	Biological Oceanography	Earth, Ocean, and Atmospheric Science
OCC	Chemical Oceanography	Earth, Ocean, and Atmospheric Science
OCE	General Oceanography	Earth, Ocean, and Atmospheric Science
OCG	Geological Oceanography	Earth, Ocean, and Atmospheric Science
OCP	Physical Oceanography	Earth, Ocean, and Atmospheric Science Mathematics
ORI	Oral Interpretation	Communication
PAD	Public Administration	Public Administration and Policy
PAS	Physician Assistant	Medicine
PAX	Peace Studies	International Affairs
PCB	Process Biology (Cell/Molecular/ Ecology/Genetics/ Physiology)	Biological Science Psychology
PCO	Psychology for Counseling	Educational Psychology and Learning Systems
PEL	Physical Education Activities (General): Object Centered, Land	Sport Management
PEM	Physical Education Activities (General): Performance Centered, Land	Sport Management
PEN	Physical Education Activities (General): Water, Snow, Ice	Earth, Ocean, and Atmospheric Science Sport Management
PEO	Physical Education Activities (Professional): Object Centered, Land	Sport Management
PEP	Physical Education Activities (Professional): Performance Centered, Land	Sport Management
PET	Physical Education Theory	Educational Psychology and Learning Systems Nutrition, Food and Exercise Sciences Sport Management

PGY	Photography	Art
PHC	Public Health Concentration	Public Health Social Science
PHH	Philosophy, History of	Philosophy
PHI	Philosophy	Philosophy Religion
PHM	Philosophy of Man and Society	Philosophy Political Science
PHP	Philosophers and Schools	Philosophy
PHY	Physics	Biomedical Sciences Chemical Physics Physics
PHZ	Physics: Continued	Physics
POR	Portuguese Language	Modern Languages and Linguistics
POS	Political Science	Political Science Public Administration and Policy
POT	Political Theory	Political Science
POW	Portuguese Literature (Writings)	Modern Languages and Linguistics
PPE	Personality	Psychology
PRO	Prosthetics/Orthotics	Industrial and Manufacturing Engineering
PRT	Portuguese Culture in Translation or Translation Skills	Modern Languages and Linguistics
PSB	Psychobiology	Biological Science Educational Psychology and Learning Systems Psychology
PSC	Physical Sciences	Chemistry and Biochemistry Physics
PSY	Psychology	Psychology
PUP	Public Policy	Biomedical Sciences Political Science
PUR	Public Relations	Communication
QMB	Quantitative Methods in Business	Business Analytics, Information Systems and Supply Chain Finance Marketing Statistics
RCS	Rehabilitation Counseling Services	Educational Psychology and Learning Systems
REA	Reading	English
RED	Reading Education	Teacher Education
REE	Real Estate	Risk Management/Insurance, Real Estate and Legal Studies
REL	Religion: Undergraduate	Religion
RLG	Religion: Graduate	Religion
RMI	Risk Management and Insurance	Risk Management/Insurance, Real Estate and Legal Studies
RTV	Radio: Television	Communication Corporate Communication Professional Communication
RUS	Russian Language	Modern Languages and Linguistics
RUT	Russian Culture in Translation or Translation Skills	Modern Languages and Linguistics
RUW	Russian Literature (Writings)	Modern Languages and Linguistics
SCC	Security	Criminology and Criminal Justice
SCE	Science Education	Biological Science Chemistry and Biochemistry Earth, Ocean, and Atmospheric Science Teacher Education
SDS	Student Development Services	Educational Leadership and Policy Studies Educational Psychology and Learning Systems
SEC	Serbo-Croatian Language	Modern Languages and Linguistics
SED	Speech Education	Communication
SLL	Slavic Languages	History Modern Languages and Linguistics
SLS	Student Life Skills (Learning)	Educational Psychology and Learning Systems
SMT	Science or Mathematics Teaching	Teacher Education
SOP	Social Psychology	Psychology
SOW	Social Work	Biomedical Sciences Educational Psychology Social Work
SPA	Speech Pathology and Audiology	Biomedical Sciences Communication Science and Disorders
SPC	Speech Communication	Art History Biomedical Sciences Communication Corporate Communication Professional Communication
SPM	Sports Management	Sport Management
SPN	Spanish Language	Biomedical Sciences Modern Languages and Linguistics
SPS	School Psychology	Educational Psychology and Learning Systems
SPT	Spanish Culture in Translation or Translation Skills	Modern Languages and Linguistics
SPW	Spanish Literature (Writings)	Modern Languages and Linguistics
SRK	Sanskrit Language	Religion
SSE	Social Studies Education	Teacher Education
STA	Statistics	Statistics
SYA	Sociological Analysis	Sociology
SYD	Sociology of Demography/Area Studies/Sociological Minorities	Sociology
SYG	Sociology: General	Sociology
SYO	Social Organization	Biomedical Sciences Sociology
SYP	Social Processes	Biomedical Sciences Educational Psychology and Learning Systems Sociology
TAX	Taxation	Accounting
THE	Theatre Studies and General Resources	Theatre
TPA	Theatre Production and Administration	Theatre
TPP	Theatre Performance and Performance Training	Theatre
TSL	Teaching English as a Second Language	Teacher Education
TTE	Transportation Engineering	Civil and Environmental Engineering
TUT	Turkish Culture in Translation or Translation Skills	Modern Languages and Linguistics
URP	Urban and Regional Planning	Biomedical Sciences Urban and Regional Planning
URS	Urban and Regional Studies	Urban and Regional Planning
VIC	Visual Communication	Communication
WOH	World History	History
WST	Women's Studies	Women's Studies
ZOO	Zoology	Biological Science

THE UNIVERSITY
UNDERGRADUATE

Florida State University Mission Statement

Mission

Florida State University preserves, expands, and disseminates knowledge in the sciences, technology, arts, humanities, and professions, while embracing a philosophy of learning strongly rooted in the traditions of the liberal arts. The University is dedicated to excellence in teaching, research, creative endeavors, and service. The University strives to instill the strength, skill, and character essential for lifelong learning, personal responsibility, and sustained achievement within a community that fosters free inquiry and embraces diversity.

Vision

Florida State University will be among the nation's most entrepreneurial and innovative universities, transforming the lives of our students and shaping the future of our state and society through exceptional teaching, research, creative activity, and service. We will amplify these efforts through our distinctive climate—one that places a premium on interdisciplinary inquiry and draws from the rich intellectual and personal diversity of our students, faculty, staff, and alumni. These three forces—entrepreneurship, interdisciplinarity, and diversity—deepen FSU's impact and result in a powerful return to our students and the people of Florida for their continued support and trust.

University History

Florida State University, one of the largest and oldest of the twelve institutions of higher learning in the State University System of Florida, had its beginning as early as 1823 when the Territorial Legislature began to plan a higher education system. In 1825 the Federal Government reserved two townships for the purpose of maintaining two such institutions in the territory, and in 1845 the United States Congress, supplemental to the act admitting Florida as a state in the Union, added two more townships. This led to an 1851 act of the Florida Legislature establishing two seminaries, one to be located east and the other west of the Suwannee River.

By 1854 the city of Tallahassee had established a school for boys called the Florida Institute with the hope that the state could be induced to take it over as one of the seminaries. In 1856 the Legislature of Florida chose to accept the offer of the Institute's land and building and designated Tallahassee as the site of one of the state seminaries because of its railway connections, its "salubrious climate," and its "intelligent, refined, and moral community."

Francis Eppes, who spent his formative years on the estate of his grandfather, President Thomas Jefferson, at Monticello, in Virginia, and who shared his grandfather's views of the importance to a democracy of a liberally educated citizenry, was the Mayor of Tallahassee who made the offer. Eppes served as President of the Seminary's Board of Education for eight years and instilled in the institution the Jeffersonian ideals that characterize it today.

In February 1857, the institution began offering postsecondary instruction to male students as the Seminary West of the Suwannee River. The school first became coeducational the following year when it absorbed the Tallahassee Female Academy, begun in 1843 as the Misses Bates School. Thus the West Florida Seminary, founded in 1851, began operating in 1857, only twelve years after Florida achieved statehood. It was located on the hill where the Westcott Building now stands, which has been the site of an institution of higher education longer than any other site in Florida.

Classes were held at the West Florida Seminary from 1857 until 1863, when the state legislature changed the name to The Florida Military and Collegiate Institute to reflect the addition of a military section that trained cadets. During the Civil War, cadets from the school, ranging in age from 12 to 18, fought in the Battle of Natural Bridge and helped make Tallahassee the only Confederate capital east of the Mississippi not captured during the war. As a result of the brave action of the West Florida cadets in this battle, Florida State University's Army ROTC cadet corps is today one of only three in the nation authorized to display a battle streamer with its flag, a streamer which bears the words "Natural Bridge 1865." After the end of the war in 1865, however, Union troops under General McCook descended upon Tallahassee and occupied the city (including campus buildings), remaining for more than a month.

Following the war, the institution entered a period of growth and development. In 1884 the first diplomas, Licentiates of Instruction, were awarded, and by 1891 the Institute had begun to focus clearly on what we would today call postsecondary education; seven Bachelor of Arts degrees were awarded that year. By 1897 the institution had evolved into the first liberal arts college in the state, and in 1901 it became Florida State College, a four-year institution, with the first master's degree offered in 1902. That year the student body numbered 252 men and women, and degrees were available in classical, literary, and scientific studies. In 1903 the first university library was begun. The following quote from the 1903 Florida State College Catalogue adds an interesting footnote to this period:

> "In 1883 the institution, now long officially known as the West Florida Seminary, was organized by the Board of Education as The Literary College of the University of Florida. Owing to lack of means for the support of this more ambitious project, and also owing to the fact that soon thereafter schools for technical training were established, this association soon dissolved. It remains to be remarked, however, that the legislative act passed in 1885, bestowing upon the institution the title of the University of Florida, has never been repealed. The more pretentious name is not assumed by the college owing to the fact that it does not wish to misrepresent its resources and purposes."

In a 1905 reorganization of Florida's educational system by the legislature, the University of Florida in Gainesville was established and designated a men's school, and the Florida State College became a women's school called the Florida Female College. The male student body moved from Tallahassee to Gainesville, taking with it the fraternity system and the College football team, which had been state champions in 1902, 1903, and 1905. In 1909 the name of the college was changed to Florida State College for Women, an institution that grew to become the third largest women's college in the nation during the 1930s. The College became fully accredited in 1915, and a chapter of the national honor society of Phi Kappa Phi was installed in 1925, the year after the College was placed on the list of standard colleges and universities approved by the Association of American Universities and became a member of the Association of American Colleges. In 1935 the first chapter of Phi Beta Kappa in the state, Alpha Chapter of Florida, was installed at the College, a mark of its status as a true liberal arts college.

The year 1947 saw many changes. Demand by returning World War II veterans had brought men back to the campus in 1946 with the establishment of the Tallahassee Branch of the University of Florida and in 1947 caused the Legislature to return Florida State College for Women to coeducational status and name it Florida State University. A permanent president's residence was acquired. The student body, numbering 4,056, chose a new alma mater and selected the Seminole as its mascot. The Flying High Circus was born, and football was started again when the first home game since 1905 was played in October. Three years later, Campbell Stadium was built. The first Student Union was established and housed in the "O Club" on West Campus, a former Army Air Base which mainly housed male students and provided some classroom space three miles west of the main campus.

The 1950s brought significant development and expansion to the University. To the colleges and schools that had existed since the Florida State College days—Arts and Sciences, Education, Home Economics, and Music—were added Library Science (in 1948), Social Welfare (later split into Social Work and Criminology), Business, and Nursing. A student in the Department of Chemistry was awarded the University's first Doctor of Philosophy (PhD) degree in 1952. A new building was completed for the Developmental Research School, which in 1905 had evolved from the High School and the College Academy of earlier days as the Observation and Practice School created to provide on-site opportunities for experience and research to students in education. Tully Gymnasium, Strozier Library, and the Business Building were completed to enhance the education of the ever-increasing student population. In 1957 the Panama Canal Branch was opened.

In the 1960s the University acquired the Shaw Poetry Collection, established the Institutes of Molecular Biophysics and Space Biosciences, and constructed nine new buildings, including the Oglesby Union and the Fine Arts Building. During this period, the Program in Medical Sciences was established. The first black student enrolled in 1962, and the first black PhD candidates graduated in 1970. Programs in African American Studies and Women's Studies were established. Continuing the liberal arts tradition begun in the 1890s, the Liberal Studies Program required of all undergraduates was expanded and strengthened.

In each succeeding decade, Florida State University has added to its academic organization and now comprises sixteen colleges, the Graduate School, the Dedman School of Hospitality, and the Jim Moran School of Entrepreneurship. It has expanded from the original few acres and buildings

to 384 buildings on 1,633 acres, including the downtown Tallahassee main campus of 485 acres; a farm, which for many decades supplied the Florida State College for Women with food; the Seminole Reservation—a recreational facility; the Marine Laboratory on the Gulf Coast; the FAMU–FSU College of Engineering facility; the National High Magnetic Field Laboratory and Division of Research at Innovation Park; and the branch campus in Panama City, Florida. One hundred and sixty-eight years after its founding, Florida State University started the 2019-2020 academic year with a student population of over 42,000 and recognition as a major graduate research institution with an established international reputation.

In Fall 2019, Florida State University enrolled students from all fifty states, the District of Columbia, and 131 foreign countries. The enrollment breakdown by class included 600 law (JD) students, 480 medical (MD) students, a total of 33,000 undergraduate students, a total of 8,714 graduate students, and a total of 1,162 non-degree-seeking students. Out of 42,876 students enrolled at the University that semester, 42.9 percent were men and 57.1 percent were women. The University employed a total of 2,524 faculty members in Fall 2019, 55.0 percent men and 45.0 percent women.

The Panama City Campus is located on beautiful North Bay, one hundred miles west of Tallahassee, near the Gulf of Mexico. The campus, with its modern classrooms and offices, has been designed to utilize the natural landscape of the site, creating an aesthetic and effective educational setting.

University Organization

Florida State University is one of twelve units of the State University System (SUS) of Florida. The State Board of Education (SBOE), established pursuant to Section 1001.01, Florida Statutes, on January 7, 2003, oversees education governance in the state through the Commissioner of Education, who serves as Secretary of the SBOE. The Florida Board of Governors (FBOG), established pursuant to Section 7(d), Article IX of the state constitution, coordinates the State University System. The FBOG oversees the thirteen-member Boards of Trustees for each of Florida's public universities through the Chancellor of the State University System of Florida. Florida State University's Board of Trustees sets the University's policies and goals and serves as its legal owner and final authority responsible for efficient and effective use of its resources.

The main campus of the University is located in Tallahassee, the state's capital. FSU International Programs has over sixty years of experience and ranks 12th in the nation in providing students with extraordinary study abroad experiences. Through our more than sixty academic programs, students can choose to study in over twenty locations throughout the world. Program opportunities include spring, summer, and fall semesters at our four study centers, summer terms in additional locations, Spring Break programs, First Year Abroad and First Semester Abroad for incoming freshmen, and international internships. The year-round study centers are located in Florence, Italy; London, England; Panama City, The Republic of Panama; and Valencia, Spain. Summer programs are currently being offered in locations including China, Costa Rica, Croatia, Czech Republic, France, Germany, Ireland, Peru, Russia, Switzerland, Tanzania, and Thailand. FSU credits are earned for all courses and are transferable within the US university system in accordance with each student's home university regulations.

The chief executive officer of Florida State University is the President. The President is assisted by the Provost (who is also the Executive Vice President for Academic Affairs), the Vice President for Finance and Administration, the Vice President for Faculty Development and Advancement, the Vice President for Student Affairs, the Vice President for Research, the Vice President for University Advancement, and the President of the Faculty Senate.

The President's Office also coordinates alumni affairs and the solicitation of external funds to support scholarships and loans for students, capital construction, excellence in academic programs, and intercollegiate athletics, along with coordinating programs to improve understanding and support of University academic programs and activities through its units, including governmental relations.

Additionally, University Communications reports to the Office of the President, and coordinates efforts to improve the public's understanding of the University's academic programs and activities through internal and external media, both print and electronic. It includes the Public Broadcast Center (public radio, public television, and public access channel), Publications and Media Relations.

The Division of Academic Affairs is responsible for the operation of the academic program of the University. It includes the Office of the Vice President for Faculty Development and Advancement, which interprets all faculty personnel policy, including faculty development and welfare, monitors all academic rules and regulations, including those related to academic integrity and grade appeals, and facilitates the operation of the Faculty Governance System of the University; The Graduate School, which is responsible for the graduate enrollment, general advisement, university fellowships, and special programs; and the Division of Undergraduate Studies, which is responsible for undergraduate advisement, retention, and special programs. Further support is given by associate vice presidents and directors, who are responsible for such academic matters as continuing education, international programs, computing and information resources, learning systems, libraries, the Office of the University Registrar, the Office of Financial Aid, and the Office of Admissions.

The Division of Finance and Administration maintains the physical plant, administers the personnel program, and receives and disburses nearly all University funds.

The Division of Student Affairs offers and coordinates programs that provide housing, career guidance, health care, recreation, child care, self-governance, and enhancement of academic skills to students. It is also responsible for programs and services for international students, disabled students, and student activities and organizations.

The Division of Research coordinates all research programs and mediates between extramural sponsors and faculty conducting research, development, and training under such sponsorship.

The Division of University Advancement works to increase Florida State University's capacity for generating private philanthropy and volunteer support. It oversees the FSU Alumni Association, FSU Foundation, and Seminole Boosters.

The Faculty Senate is an elected representative body of faculty that establishes academic policy regarding admission and graduation of students, curricula, and academic standards, and advises and recommends about all matters affecting the academic program of the University.

Panama City Campus

In 1982, the Florida Legislature established a campus of Florida State University at Panama City. Located one hundred miles west of Tallahassee on beautiful North Bay, the Panama City campus provides opportunities for undergraduate and graduate study in thirteen programs leading to the bachelor's degree and six programs leading to the master's degree. Undergraduates may complete their entire bachelor's degree at the Panama City campus in the programs offered or may transfer to the main campus with an Associate of Arts degree. The Panama City campus houses the College of Applied Studies and offers three baccalaureate degrees and two master's degrees independent of the main campus.

The Panama City campus strives to offer a personalized university experience. Classes are relatively small, thereby permitting an individualized approach to instruction and facilitating interaction between students and faculty.

Colleges

The academic organization of the University comprises sixteen colleges. One of these, the College of Engineering, is a joint program of the Florida Agricultural and Mechanical University (FAMU) and Florida State University. In addition to the Associate of Arts (AA) degree, the University offers 105 authorized baccalaureate degree programs, 123 authorized master's degree programs, 25 authorized advanced master's and specialist degree programs, 3 authorized professional degree programs, and 78 authorized doctoral degree programs. The following outlines the academic divisions:

College of Applied Studies

Programs: Corporate and Public Communication; Nurse Anesthesia; Professional Communication; Public Safety and Security; Recreation, Tourism, and Events

College of Arts and Sciences

Departments: Aerospace Studies; Anthropology; Biological Science; Chemistry and Biochemistry; Classics; Computer Science; Earth, Ocean and Atmospheric Science; English; History; Mathematics; Military Science; Modern Languages and Linguistics; Philosophy; Physics; Psychology; Religion; Scientific Computing; Statistics

Interdisciplinary Programs: FSU-Teach; History and Philosophy of Science; Interdisciplinary Humanities; Molecular Biophysics; Neuroscience; Women's Studies

College of Business

Departments: Accounting; Business Analytics, Information Systems and Supply Chain; Finance; Management; Marketing; Risk Management/ Insurance, Real Estate and Legal Studies

Interdisciplinary Programs: Business Administration and Law; Business Administration and Social Work

College of Communication and Information

Schools: School of Communication; School of Communication Science and Disorders; School of Information

College of Criminology and Criminal Justice

Interdisciplinary Programs: Criminology and Public Administration; Criminology and Social Work; Cyber Criminology

Dedman School of Hospitality

Departments: Hospitality and Tourism Management; Global Club Management and Leadership

College of Education

School: School of Teacher Education

Departments: Educational Leadership and Policy Studies; Educational Psychology and Learning Systems; Sport Management

Interdisciplinary Programs: FSU-Teach

FAMU–FSU College of Engineering

Departments: Chemical and Biomedical Engineering; Civil and Environmental Engineering; Electrical and Computer Engineering; Industrial and Manufacturing Engineering; Mechanical Engineering

College of Fine Arts

Schools: School of Art and Design; School of Dance; School of Theatre

Departments: Art; Art Education; Art History; Interior Architecture and Design

Interdisciplinary Program: Arts Administration

The Graduate School

Interdisciplinary Program: Materials Science and Engineering

College of Human Sciences

Departments: Family and Child Sciences; Nutrition, Food and Exercise Sciences

Jim Moran College of Entrepreneurship

Programs: Retail Entrepreneurship, Commercial Entrepreneurship

College of Law

Interdisciplinary Programs: Law and Aquatic Environmental Science, Law and Business Administration; Law and Information Studies; Law and Information Technology; Law and International Affairs; Law and Public Administration; Law and Social Work; Law and Sport Management; Law and Urban and Regional Planning

College of Medicine

School: School of Physician Assistant Practice

Departments: Biomedical Sciences; Clinical Sciences; Family Medicine and Rural Health; Geriatrics; Behavioral Sciences and Social Medicine

Interdisciplinary Programs: Neuroscience and Interdisciplinary Medical Sciences

College of Motion Picture Arts

College of Music

College of Nursing

College of Social Sciences and Public Policy

School: Reubin O'D. Askew School of Public Administration and Policy

Departments: Economics; Geography; Political Science; Sociology; Urban and Regional Planning

Interdisciplinary Programs: African American Studies; Asian Studies; Demography and Population Health; Environment and Society; International Affairs; International Affairs and Law; Latin American and Caribbean Studies; Social Science; Public Administration and Criminology; Public Administration and Law; Public Administration and Social Work; Public Health; Russian and East European Studies; Urban and Regional Planning and Demography; Urban and Regional Planning and International Affairs; Urban and Regional Planning and Law; Urban and Regional Planning and Public Administration

College of Social Work

Interdisciplinary Programs: Law and Social Work; Social Work and Business Administration; Social Work and Criminology; Social Work and Public Administration

Institutes and Research Centers

The work of the colleges is facilitated by institutes and centers in which faculty and students from throughout the University work as interdisciplinary teams on research and service projects. The centers and institutes are heavily supported by external funds. They serve as actual and potential sites for cooperative projects staffed by faculty and students, and personnel from business and industry, and are significantly involved in supporting state agencies through research, development, and training.

The following are the Florida Board of Governors approved institutes and research centers:

Professional Development and Public Service

Center for Academic and Professional Development

The Frederick L. Jenks Center for Intensive English Studies

Learning Systems Institute

Institute of Science and Public Affairs

Center for Biomedical and Toxicological Research and Hazardous Waste Management

Center for Economic Forecasting and Analysis

Center for Information Management and Educational Services (CIMES)

Center for Prevention and Early Intervention Policy

Center for the Advancement of Human Rights

Florida Conflict Resolution Consortium and FCRC Consensus Center

Florida Resources and Environmental Analysis Center (FREAC)

Florida State Climate Center

Institute for Academic Leadership

Institute for Cooperative Environmental Research (ICER) (Inactive)

Institute of Science and Public Affairs (ISPA)

John Scott Dailey Florida Institute of Government

The Florida Center for Prevention Research

International Institutes

Florida–Costa Rica Linkage Institute (FLORICA)

College of Applied Studies

Science, Technology, Engineering and Mathematics (STEM) Institute

College of Arts and Sciences

Center for Anchored Phylogenomics

Center for Genomics and Personalized Medicine (joint with the College of Medicine)

Center for Humanities and Society

Center for Ocean-Atmospheric Prediction Studies (COAPS)

Center for Security and Assurance in IT (C-SAIT)

Geophysical Fluid Dynamics Institute (GFDI)

Institute for Cognitive Sciences

Institute for Fishery Resource Ecology (IFRE) (Inactive)

Institute of Molecular Biophysics (IMB)

Institute on Napoleon and the French Revolution

Institute on World War II and the Human Experience

Karst Environmental Center (KEC)

Middle East Center

Statistical Consulting Center

Winthrop-King Institute for Contemporary French and Francophone Studies

College of Business

Carl DeSantis Center for Executive Management Education
Center for Risk Management Education and Research
Florida Catastrophic Storm Risk Management Center
Human Resource Management Center
Institute for Applied Business Research
Jim Moran Institute for Global Entrepreneurship
Real Estate Research Center

College of Communication and Information

Center for Hispanic Marketing Communication
Communication and Early Childhood Research and Practice Center
Communication Research Center
Information Use Management and Policy Institute (Information Institute)
Institute for Digital Information and Scientific Communication (iDigInfo)
Institute for Intercultural Communication and Research (joint with Office of the Vice President for Student Affairs)
L.L. Schendel Speech and Hearing Clinic
Project Management Center

College of Criminology and Criminal Justice

Center for Criminology and Public Policy Research

Dedman School of Hospitality

International Center for Hospitality Research and Development

College of Education

Center for Education Research in Mathematics, Engineering and Science (CERMES)
Center for Postsecondary Success (CPS)
Center for Sport, Health and Equitable Development
Center for the Study of Technology in Counseling and Career Development
Hardee Center for Leadership and Values

FAMU–FSU College of Engineering

Aero-propulsion, Mechatronics and Energy Center (AME)
Applied Superconductivity Center (ASC)
Center for Accessibility and Safety for an Aging Population (ASAP)
Center for Advanced Power Systems (CAPS)
Center for Intelligent Systems, Control and Robotics (CISCOR)
Center for Resilient Infrastructure and Disaster Response
Center for Transportation and Public Safety
Energy and Sustainability Center (ESC)
Florida Center for Advanced Aero-Propulsion (FCAAP)
High Performance Materials Institute (HPMI)

Jim Moran College of Entrepreneurship

Retail Innovation Center

College of Fine Arts

Maggie Allesee National Center for Choreography

College of Human Sciences

Center for Advancing Exercise and Nutrition Research on Aging
Center for Couple and Family Therapy
Center on Better Health and Life for Underserved Populations
Florida State University Family Institute
Institute of Sports Sciences and Medicine (joint with the College of Medicine)

College of Law

Center for Innovative Collaboration in Medicine and Law (joint with the College of Medicine)

College of Medicine

Autism Institute
Center for Brain Repair
Center for Child Stress and Health
Center for Genomics and Personalized Medicine (joint with the College of Arts and Sciences)
Center for Innovative Collaboration in Medicine and Law (joint with the College of Law)
Center for Behavioral Health Integration
Center for Translational Behavioral Science
Center for Underrepresented Minorities in Academic Medicine
Center of Excellence for Patient Safety
Center on Global Health
Center on Medicine and Public Health
Florida Blue Center for Rural Health Research and Policy
Institute of Sports Sciences and Medicine (joint with the College of Human Sciences)

College of Motion Picture Arts

Torchlight Center for Motion Picture Innovation and Entrepreneurship

College of Music

Center for Music of the Americas
Center for Music Research
Institute for Infant and Child Medical Music Therapy

College of Nursing

Center for Indigenous Nursing Research for Health Equity
Tallahassee Memorial HealthCare Center for Research and Evidence Based Practice

College of Social Sciences and Public Policy

Center for Civic and Nonprofit Leadership
Center for Demography and Population Health
Center for Disaster Risk Policy
Center for the Study of Democratic Performance
Claude Pepper Center
DeVoe L. Moore Center for the Study of Critical Issues in Economic Policy and Government
Florida Center for Public Management
Gus A. Stavros Center for the Advancement of Free Enterprise and Economic Education
L. Charles Hilton Center for the Study of Economic Prosperity and Individual Opportunity
LeRoy Collins Institute
Pepper Institute on Aging and Public Policy

College of Social Work

Center for the Study and Promotion of Communities, Families and Children
Florida Institute for Child Welfare
Institute for Family Violence Studies
Institute for Justice Research and Development
Institute for Social Work Research
Trinity Institute for the Addictions (Inactive)

Office of the Provost

Institute for Successful Longevity

Office of the Vice President for Research

Center for Advanced Power Systems (CAPS)
Florida Climate Institute (FCI)
Future Fuels Institute
Health Equity Research Institute

Office of the Vice President for Student Affairs

Florida Center for Interactive Media (FCIM)

Institute for Intercultural Communication and Research (joint with the College of Communication and Information)

Other Research and Instructional Units

Center for Academic and Professional Development

Director: William H. Lindner; **Associate Director:** Kerry McElroy

The Florida State University **Center for Academic and Professional Development (CAPD)** is the continuing education and academic program outreach entity for the campus, the community, and students of all ages everywhere. Housed in the Augustus B. Turnbull III Florida State Conference Center, the experienced staff of CAPD support a variety of learning opportunities as they provide services to colleges, departments, and students on campus and online. CAPD can be reached online at *http://learningforlife.fsu.edu*.

CAPD promotes lifelong learning and personal productivity enhancement. For example:

Professional Development/Personal Enrichment. CAPD Online offers Introduction to Web Design, Web Application Development, Introduction to Digital Graphic Design, Spreadsheets for Business Environments, and the Certificate in Financial Planning. These courses are instructor-led and offer an online interactive experience. CAPD also offers a fully online, self-paced Professional Certification in Trauma & Resilience open to the public.

Test Prep Classes. CAPD also offers online and face-to-face courses in Test Prep for the GMAT, GRE, LSAT, and SAT.

Academic Credit. CAPD provides academic credit courses, including part-time degree and certificate programs for the non-traditional student. Courses are offered on campus and at a distance. Special courses and teacher institutes are held each summer. CAPD also coordinates returning student scholarships for students twenty-three years of age or older.

CAPD continues to identify and develop new course offerings to support lifelong learners in their quest for personal enrichment and sustain successful careers.

CAPD's team can assist you with your training needs, Webcapturing your lessons, creating a custom Web page with a unique URL to link to your training and/or convert your Webcaptured materials to short videos with specific learning objectives.

The Center's professional staff of meeting planners is readily available to put their expertise to work helping you organize events. For more information, please visit *http://learningforlife.fsu.edu/fsu-conference-center-2/*.

The Florida State Conference Center

The Augustus B. Turnbull III Florida State Conference Center, located at *555 West Pensacola St.*, is adjacent to FSU's five-story St. Augustine parking garage. The Conference Center is approximately 47,000 square feet, featuring a gothic brick exterior and three floors to house a large auditorium, a 336-seat dining room, eight breakout rooms, an executive boardroom, food preparation facilities, and administrative offices. It employs the latest technology, including three video walls, LCD screens and live Webcasting in its conferencing rooms, and is capable of hosting anything from small meetings to large regional conferences. The Conference Center also has a full service studio outfitted with industry standard equipment and capability, including teleprompting and Webcasting.

Campus Reimagined Initiative

Director: William H. Lindner

As FSU prepares for the next generation of students, the Campus Reimagined Initiative (CRI) is dedicated to creating a living and learning environment, built on a data-rich, technology-centric platform, where students can seek and acquire the knowledge they need to discover, develop, and fulfill their personal passion.

Center for Global Engagement

See the "International Education" chapter in this *General Bulletin*.

Center for Intensive English Studies

See the "International Education" chapter in this *General Bulletin*.

FSU International Programs

See the "International Education" chapter in this *General Bulletin*.

The Florida Center for Public Management

Director: Ben Green

The Florida Center for Public Management (FCPM) was established in 1978 to provide assistance to elected leaders and public managers in state and local governments in Florida. Its staff of full-time, experienced management consultants is available to help these officials improve their operations through a variety of services, including executive development seminars, organizational improvement diagnoses, leadership and staff team-building workshops, and various problem-solving techniques. FCPM efforts include the Florida Certified Public Manager Program, a nationally recognized comprehensive training and development program for public sector managers. FCPM is a part of the Askew School of Public Administration and Policy.

To obtain further information about FCPM and its services, visit *http://www.fcpm.fsu.edu* or call *(850) 644-6460*.

Florida State University – Republic of Panama

Rector: Carlos R. Langoni

Florida State University's Office of International Programs administers a permanent campus of approximately five hundred full-time students in the Republic of Panama. FSU-Panama offers a full program of courses at the lower-division level leading to the associate degree, undergraduate courses leading to the baccalaureate degree in selected majors, and graduate courses leading to the master's degree in International Affairs. The campus serves U.S. citizens and residents in Panama, Panamanian citizens, and visiting scholars from throughout the world. Courses are taught by regular and adjunct faculty as well as rotating faculty from the Tallahassee campus; students from the Tallahassee campus also study at FSU-Panama, taking advantage of the resources of Panama and the ease of receiving full academic credit from the University. Internships are arranged for Tallahassee students majoring in fields ranging from biology to international business. A full range of facilities is offered at the FSU-Panama campus, including housing, an athletic complex, a library, technology-enhanced classrooms, laboratories, administrative offices, and student center. The campus is located in Clayton – the City of Knowledge – across from the Miraflores Locks of the Panama Canal and a few miles from the center of Panama City, the nation's capital.

FSU-Panama also offers additional courses and cultural activities of special interest to U.S. students who seek study-abroad opportunities, either for one semester or for a full year. For further information, please consult the campus' Web site, *http://panama.fsu.edu*, write to the International Programs office at *A5500 University Center,* call *(850) 644-3272,* or visit *http://www.international.fsu.edu*.

Institute for Cognitive Sciences

Director: Michael Kaschak

The institute was founded in 1984 for the encouragement of interdisciplinary research, communication, and graduate study in the cognitive sciences. Its members include faculty and graduate students from the fields of computer science, psychology, philosophy, linguistics, education, business, and physics. Research has involved computer modeling of memory and problem solving, artificial and computational intelligence, knowledge-based computer systems, fuzzy logic and soft computing (e.g., genetic algorithms and neural networks), computer diagnosis of novice difficulties in problem solving, similarities and differences between human and lower-animal cognition, cultural aspects of cognition and language, linguistics and cognition, formal and natural languages, philosophy of knowledge and cognition, philosophy of artificial intelligence, study of the brain, robotics, education, and vision. Recently, research into cognitive aspects of the management of technology and of the perception of its affordability/cost has been included. A specialized studies program is offered for graduate study in cognitive sciences.

Learning Systems Institute

Director: Jeffrey Ayala Milligan; **Associate Director:** Rabieh Razzouk

The Learning Systems Institute (LSI) is a multi-disciplinary research and development unit dedicated to improved human performance. LSI is a recognized world leader in the improvement of teaching, learning, and performance systems in school, business, industry, and military settings. LSI has generated more than $500 million in externally funded research over its five-decade history. LSI's work provides a wealth of opportunities for graduate students to gain first-hand experience with cutting-edge research. LSI faculty and students have worked in over two dozen countries around the world, in addition to leading major research and development in the United States.

Founded in 1969, LSI is organized into two centers:

Florida Center for Research in Science, Technology, Engineering, and Mathematics (FCR-STEM). A multidisciplinary research center created by the Florida Legislature and competitively awarded to Florida

State University in 2007, FCR–STEM helps the state of Florida improve STEM teaching and learning in grades K-12 and prepare students for higher education and STEM careers in the 21st century. Through impacts on teacher knowledge and classroom practice, FCR–STEM strives to improve student achievement in STEM fields, narrow student achievement gaps in STEM fields, and increase student pursuit of STEM fields.

Center for International Studies in Educational Research and Development (CISERD). CISERD works to improve learning and instruction in various countries through educational research and development. Toward this end, the center works with international partners in government, universities, and non-governmental organizations to build capacity that will enable policy makers, researchers, and educators to sustain international development projects and pursue future objectives. Organizations such as the U.S. Agency for International Development, the U.S. Department of State, UNICEF, CARE International, and various non-governmental organizations have entrusted CISERD with research and development work, as have government agencies in Indonesia, Ethiopia, the Philippines, Indonesia, India, Ukraine, South Africa, Nigeria, Egypt, Lebanon, Pakistan, Tuvalu, nations in Latin America, and elsewhere.

LSI's learning research focuses on STEM (science, technology, engineering, and math), communities of instruction, learning technologies, international development, workforce development, leadership, learning disabilities, libraries, early grade reading, literacy, school reform, assessment, accommodations and modifications for students with special needs, and teaching and learning. LSI's research into performance focuses on how individuals and organizations perform complex tasks and how to help them achieve performance goals.

To obtain further information about LSI, contact the *Learning Systems Institute, 4600 UCC, Tallahassee, FL 32306-2540*; or call *(850) 644-2570*. The Institute's Web site may be accessed at *https://lsi.fsu.edu/*.

Libraries

Dean of the University Libraries: Gale Etschmaier

The University Libraries provide print and electronic collections and a wide range of services to enhance the learning, teaching, research, and service activities of Florida State University. In support of this mission, the libraries' collection is approaching four million volumes, including access from anywhere in the world to hundreds of databases and more than 70,000 e-journals. Materials not available online or at the libraries may be requested through interlibrary loan or through the statewide UBorrow system, allowing FSU faculty and students to request delivery of books from over fifteen million volumes available at all state university libraries. Library faculty also offer classes and consultations to teach critical research and thinking skills. For those researchers unable to visit the libraries, online research services are available 24/7 and library staff offer outreach to dormitories and buildings across campus.

The Florida State University Libraries include seven libraries on campus: Strozier Library, Dirac Science Library, Claude Pepper Library, College of Music Allen Music Library, College of Law Research Center, College of Medicine Maguire Medical Library, and FAMU-FSU College of Engineering Library.

Library materials and services are also available at the FSU Panama City, Florida campus, at the Ringling campus in Sarasota, Florida, as well as at FSU International Programs study centers in London, England; Florence, Italy; Valencia, Spain; and Panama City, Republic of Panama. The entire FSU community can search the University Libraries catalog via its Web site at *http://www.lib.fsu.edu*.

The **Robert Manning Strozier Library**, the University's main library, is located in the center of the main campus and occupies seven floors. Strozier Library is open one hundred and thirty-four hours each week during the Fall and Spring, providing around-the-clock research assistance and study spaces, and sees almost 1.8 million visitors each year. Its main floor is an undergraduate-focused Learning Commons, while its lower level is a graduate- and faculty-focused Scholars Commons. Strozier offers free academic tutoring and a robust range of academic support services and programming throughout the day and late into the night. Its collection includes a wide variety of research materials, primarily in the humanities and social sciences. The library serves as a regional depository for federal and Florida government documents as well as United Nations documents. In its technology labs, Strozier provides equipment, software, and facilities for listening to, viewing, creating, and editing multimedia materials. Internet-accessible computers with scanners, printers, and photocopiers are available throughout the library. Laptops, cameras, and other equipment are available for checkout. The Assistive Technology Lab provides adaptive equipment and software for students with disabilities.

University Libraries Special Collections and Archives materials are accessed in the Special Collections Research Center on the first floor of the Strozier Library, a nearby Exhibit Room, and in the Mary Lou Norwood Reading Room on Strozier's second floor. Its collections comprise more than half a million items. Manuscript collections include Florida political collections, Southern business history, literary manuscripts, and local and regional Florida history. The rare books of Special Collections support a wide variety of disciplines and research interests. The collection includes books from small and private presses, first editions, limited edition works, cuneiform, and other items. Notable book collections include Napoleon and the French Revolution, Shaw Childhood in Poetry, William Morris Kelmscott Press, and Carothers Memorial Rare Bibles. Special Collections and Archives, which includes University Archives, Heritage Protocol, and the Claude Pepper Library, welcomes class visits and provides a hands-on learning environment for students. Heritage Protocol maintains the Norwood Reading Room on the second floor of Strozier Library, where rotating exhibits of FSU memorabilia are displayed.

The **Claude Pepper Library**, housed on-campus in the Pepper Center, was established in 1985 as the official repository for the Pepper Collection, a unique and multi-faceted collection of over a million items by and about U.S. Congressman Claude Pepper (1900-1989) and other prominent Florida political figures, including manuscripts, photographs, audio/video recordings, and memorabilia. For more information, visit *https://www.lib.fsu.edu/pepper-library*.

The **Paul A. M. Dirac Science Library**, located on the west side of campus in the heart of the Science Center complex, serves students, faculty, and researchers in STEM fields from its central location. For more information, visit the library's Web site at *https://www.lib.fsu.edu/dirac*.

The **Warren D. Allen Music Library**, one of the Southeast's major music libraries, is located in the College of Music and contains a collection of over 200,000 recordings, scores, books, and periodicals. The library also maintains extensive online music subscriptions and databases that support the school's curriculum. Housed in 18,000 square feet of space with comfortable furnishings, listening and viewing stations, and a technology-enhanced seminar room, the Music Library provides students with impressive resources and surroundings. For more information, visit *http://music.fsu.edu/library*.

The **College of Law Research Center** has a collection of nearly 500,000 volumes and offers an active program of legal research instruction, an experienced and helpful staff, and extensive collections of law and law-related information. Legal research is facilitated via an array of electronic databases, including the LexisNexis, WESTLAW, and Bloomberg Law legal research databases. For more information, visit *http://www.law.fsu.edu/research-center/*.

The **College of Medicine Charlotte Edwards Maguire Medical Library** cultivates physicians who are expert learners, problem solvers, and agents of change by providing a supportive environment with access to high quality, relevant, and current information from 21st century information resources. The library houses a collection of books and journals and provides access to a number of electronic medical databases. For more information, visit *http://www.med.fsu.edu/library/*.

The **Florida State University-Panama City Library and Learning Center** is located in Panama City, Florida and provides computers, e-books, e-journals, and research help. Students and faculty at this location may borrow materials housed at the Tallahassee campus libraries and may access all of the electronic resources the libraries offer. The 6,000 items in its collection of printed books and journals are available at the library of the neighboring campus of Gulf Coast State College. For more information, visit *http://pc.fsu.edu/students/library-and-learning-center*.

The **FSU Republic of Panama Branch Library** offers services and a collection of over 45,000 items to students at the FSU branch campus in Panama City, Republic of Panama. Students and faculty at this location may borrow materials housed at the Tallahassee campus libraries and may access all of the electronic resources the libraries offer. For more information, visit *http://lib.fsu.edu/libraries/panama.*

FSU Early Childhood Autism Program – Panama City Campus

Program Director: Emily (Nikki) Dickens

Unique to the Panama City Campus, the FSU Early Childhood Autism Program (ECAP) is a non-profit, community outreach program that provides home, school, and clinic-based Applied Behavior Analysis (ABA) therapy for clients diagnosed with developmental disabilities, including autism spectrum disorder. The primary mission of ECAP is to provide effective, evidence-based behavioral treatment for clients and the secondary mission is to provide supervised clinical training to Florida State University graduate students as part of their practicum with the ABA Master's Program at FSU Panama City. Service provided by ECAP include but are not limited to:

- Individualized skill and behavioral assessments

- Development and implementation of behavior treatment plans focusing on increasing important behaviors (e.g. language, social, and communicative skills) and decreasing problematic behaviors
- Parent consultation and training
- Direct 1:1 therapy and teaching with clients

ECAP graduate students conduct services under the supervision of doctorate and master's level board certified behavior analysts who hold national certification with the behavior analyst certification board. For more information about ECAP visit *http://pc.fsu.edu/about-us/grade-school-programs/ecap* or call *(850) 770-2241*.

L.L. Schendel Speech and Hearing Clinic

Director of Clinical Education: Lisa Scott

The dual mission of the speech and hearing clinic is to provide effective community service to improve the communication abilities of clients, and to provide a teaching and clinical research laboratory to develop exemplary assessment and treatment procedures for use by Florida State University students in speech-language pathology. Specific services include but are not limited to:

- Comprehensive speech-language assessment and intervention
- Hearing assessment, hearing aid dispensing, and other clinical services related to hearing impairment
- Assistive communication lab
- Dialect/Accent evaluation and reduction

Services are provided by graduate students under the direct supervision of faculty members. All professional staff members are licensed by the Florida Board of Speech Language Pathology and Audiology and certified by the American Speech Language Hearing Association.

Fees vary according to the nature of services. Students, faculty, and staff receive a reduced rate. Further information is available by calling: *(850) 644-2238* (Voice and TDD).

Museum of Fine Arts

Director: C. Preston McLane

Located in Tallahassee, MoFA has a history of exciting projects – from lush painting to dynamic sculpture exhibitions, from challenging installations to provocative photography shows. Every season begins with an international competitive exhibition that embraces all media and every semester closes with the youth and exuberance of the graduating artist exhibitions.

The Florida State University Museum of Fine Arts is a member of Florida Association of Museums, Florida Art Museum Directors' Association, Florida Cultural Action Alliance, Southeastern Museums' Conference and is accredited by the American Alliance of Museums.

Naval Science

The Naval Reserve Officers Training Corps (NROTC) program at Florida Agricultural and Mechanical University (FAMU) is open to both men and women of Florida State University through the FAMU–FSU Cooperative Program. The NROTC Program at FAMU is administered by the NROTC staff. This program affords the opportunity for selected men and women to receive instruction in naval science courses, which, in conjunction with a baccalaureate degree, will qualify them for a commission in the United States Navy or the United States Marine Corps. Students enrolled in the University who are physically qualified, and who are United States citizens, are eligible to apply for the NROTC program.

The FAMU NROTC Unit offers five programs: (1) the Navy–Marine Corps College Program (non-scholarship); (2) the four-year Navy–Marine Corps Scholarship Program; (3) the two-year NROTC College Program; and (4) the two-year Scholarship Program. Navy-Marine Corps College Program students are eligible to compete for available Naval Education and Training Command (NETC) scholarships any time after one semester of participation in the program. Selection is based on academic achievement, physical fitness, and military aptitude. Scholarships include full tuition, lab fees, and a textbook allowance of $375.00 per semester. Additionally, a stipend of $250.00 (freshmen), $300.00 (sophomores), $350.00 (juniors), or $400.00 (seniors) is paid per month to help defray the cost of living expenses. Navy–Marine Corps College Program students, if selected for advanced standing in their junior or senior year, receive a $350.00 and $400.00 per month stipend, respectively.

The NROTC Unit is located in the Perry-Paige Building on the FAMU campus. For additional information, visit *http://www.famu.edu/nrotc.*

Written requests for information should be addressed to: *Recruiting Officer, NROTC Unit, Florida Agricultural and Mechanical University, P.O. Box 6508, Tallahassee, FL 32314-6508*; or call either *(850) 599-8412* or *599-3980*; or e-mail *nrotc@famu.edu*.

Office of Distance Learning

Director: Robert Fuselier

The **Office of Distance Learning (ODL)** provides services to students, faculty, and staff that support student achievement in technology-mediated learning environments. For information on online design and instruction, teaching and learning technologies, and assessment and testing, visit *http://odl.fsu.edu*. For information on online programs, admissions and tuition, and student support, visit *http://distance.fsu.edu*.

Administrative Support

Fiscal and **Human Resources staff** help departments develop and manage their online programs, providing a broad range of administrative services. For information on the development process and funding, budget requests, account management, regulatory support, and data and reporting, visit *http://odl.fsu.edu/online-programs*. For fiscal assistance, call *(850) 645-9917* and for human resources assistance, call *(850) 644-7531*.

Assessment and Testing

The FSU Testing Center at University Center C-1100 provides secure, on-site proctored testing for a variety of FSU and non-FSU examinations. Marksense form scanning services are offered, including online form viewing, item analysis, and reports. Assessment & Testing facilitates remote proctoring for FSU's distance learning students and administers FSU course evaluations on behalf of the university. For more information, visit *http://odl.fsu.edu/assessment-testing* or contact Assessment & Testing at *(850) 644-3071* or testing@campus.fsu.edu.

Canvas and Learning technologies

ODL researches, integrates, and supports instructional technologies that enhance learning at FSU, including the Canvas learning management system. Canvas, which can be accessed at https://canvas.fsu.edu, allows technological and educational innovation by connecting people to and through instructional technology. The Canvas development team works with support systems and resources from multiple units across campus to integrate learning technology with other applications, ensuring a more efficient operation for all users. Communication between instructor and students is a central feature of Canvas, and for technical issues, assistance is always available through the Canvas Support Center and the FSU helpdesk system. Visit the Canvas Support Center at *http://support.canvas.fsu.edu* for answers to frequently asked questions, news, and resources. For technical assistance, call ODL Technical Support at *(850) 644-8004* or e-mail *canvas@fsu.edu*.

Online Course Development and Faculty Support

ODL provides services to help departments and faculty deliver quality online courses and degree programs. **Instructional development faculty** offer consulting on course design, pedagogy, instructional technologies, and media. For online courses, ODL's media production studio provides state-of-the-art technology where the media production team can help instructors create high-quality video and audio. Online courses in development undergo rigorous quality assessment by ODL faculty and the departments they serve. ODL provides training on the use of Canvas and the principles of universal design for learning as well as best practices in teaching online for instructors, teaching assistants, and course mentors. For more information on course development, call *(850) 644-4635* and ask for an instructional development faculty member.

Online Programs and Student Support

FSU offers nationally ranked online programs, distinguished faculty, and a renowned strength in the arts, humanities, and sciences. The online programs are designed by the same faculty who teach the courses on the Tallahassee and Panama City campuses. Transcripts and diplomas granted by FSU show no distinction between online and on-campus students. The following undergraduate degrees and certificate programs are offered online at FSU:

- Undergraduate Degrees
- Computer Science
- Criminology
- Interdisciplinary Social Science
- Public Safety & Security (Major in Crime Scene Investigation)
- Public Safety & Security (Major in Law Enforcement Intelligence)
- Public Safety & Security (Major in Law Enforcement Operations)
- Undergraduate Certificates
- Emergency Management
- Leadership Studies
- Multicultural Marketing Communication
- Special Events
- U.S. National Intelligence Studies

ODL academic program specialists support off-campus learners from the prospective student's first inquiry through the final semester. Visit the student-facing Web site at http://distance.fsu.edu for program inquiries. For more information, call *(850) 644-4635* and ask for an academic program specialist or submit an inquiry at *http://distance.fsu.edu/contact*.

Reserve Officers Training Corps

The University includes among its offerings both an Air Force and an Army Reserve Officer Training Corps (ROTC) program; students of Florida State University may apply for admission to the Navy ROTC Program offered through Florida Agricultural and Mechanical University (FAMU). Interested male or female freshmen and sophomores are encouraged to enroll and apply for a Navy or Marine Corps scholarship. Naval Science classes are listed in the *FAMU General Catalog* under "Division of Naval Sciences." The Air Force ROTC program is offered to students at FSU, FAMU, TCC, and the Embry-Riddle Aeronautical University extension campus at TCC. The classes are listed in this *General Bulletin* under "Aerospace Studies." For additional information, visit *http://airforcerotc.fsu.edu/*, call *(850) 644-3461*, or stop by *212 Harpe-Johnson Hall*. The Army ROTC Program is offered to FSU and TCC students. The classes are listed in this *General Bulletin* under "Military Science." For additional information, visit *https://armyrotc.fsu.edu/*, call *(850) 644-8806,* or visit in person at *201 Harpe-Johnson Hall*.

Seminole Productions

FSU's professional video production unit, Seminole Productions, housed in the College of Communication and Information, provides a variety of services to University departments. One major partner is the Florida State Athletics department. Seminole Productions produces over 120 live events and over seventy-five television shows every year for Athletics alone. In addition, Seminole Productions has partnered with ESPN and Fox Sports to produce numerous live events and special television programming for their networks. Seminole Productions is also a leader in Stereoscopic (3D) production and programming. Mark Rodin and his team of professionals have been working in stereoscopic technology for over ten years, outpacing universities across the nation in this medium. FSU students have the opportunity to learn from industry professionals, working with state-of-the-art equipment on real world projects, as part of their coursework. Everything Seminole Productions staff does is on a professional level for real paying clients. This ensures students are ready to meet the challenges of real world production after graduation. So whether it is working on live events, television shows, in pre- or post-production, graphics and animation, or even 3D stereoscopic production, students have numerous opportunities to become involved in Seminole Productions.

Undergraduate Education

Dean: Karen Laughlin

Florida State University provides a strong liberal arts baccalaureate experience that helps students to engage and refine their skills in the areas of critical and creative thinking as well as information literacy and fluency. FSU's innovative curriculum allows students to work with faculty in exploring and participating in cutting-edge scholarly and creative work across a wide range of disciplines. The close cooperation between FSU's students and faculty fosters an ecology of learning that draws upon the life of the mind while helping students to become ethical, responsible, productive, cultured, and successful citizens of the world. The University is a concentrated resource of classroom-directed learning, research facilities, and intellectual talent that seeks to develop within each student the ability to view problems from many different perspectives and to find creative, flexible, and humane solutions to a rapidly changing social world and labor market.

The Liberal Studies for the 21st Century program provides an educational foundation that enables FSU students to thrive in and beyond the classroom. Across the program, students build the knowledge and skills needed to be successful in the major and life after college.

Graduate Education (see *Graduate Bulletin* for details)

Dean of The Graduate School: Mark Riley

Graduate studies at Florida State University emphasize advanced degree programs that entail extensive research activities and preparation for careers in science, the arts, the humanities, as well as professions and technological fields. The University's diverse curriculum leads to graduate degrees with flexible options allowing students to form the program most suited to their academic and career goals. Talented faculty ensure a steady exchange of ideas, information, and technical skills. Research and teaching assistantships and fellowships are available to allow graduate students the opportunity to work with these leaders in their fields while furthering their education. The exceptional research facilities available, together with the Robert Manning Strozier Library, its eight branch libraries including the Paul A.M. Dirac Science Center Library, and the Law Library, keep the University on the leading edge of graduate education.

Faculty Distinction

It is the official policy of Florida State University to recruit the most talented faculty from leading centers of learning throughout the world. The University faculty has consistently included Nobel laureates, members of National and Foreign Academies, Pulitzer Prize winners, Guggenheim Fellows, and Fulbright Scholars. Many of its members have received national and international recognition, and the University enjoys national ranking in a number of disciplines. The Provost rewards faculty members who receive awards recognized by the National Research Council as "Highly Prestigious" and "Prestigious" with permanent salary increases. The diversity and quality of the educational backgrounds of the faculty are reflected in the institutions that have granted their graduate degrees. A listing of distinguished faculty appears in this *General Bulletin*.

Affiliations

The University participates in the Traveling Scholar Program (for graduate students), Academic Common Market, and Cooperative Programs within the State of Florida, Board of Governors. Florida State University is a member of the University Research Association; the Oak Ridge Associated Universities, Inc.; the University Corporation for Atmospheric Research; the Southeastern Universities Research Association; EDUCOM: the Interuniversity Communications Council; the American Association for Laboratory Animal Science; ALA: the American Library Association; the State University System's Institute for Oceanography; the University Space Research Association; CAUSE: the Association for the Management of Information Technology in Higher Education; and is a founding member of the iSchools movement.

Accreditation

Florida State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate, baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at *1866 Southern Lane, Decatur, GA 30033-4097*; or call *(404) 679-4500* for questions about the accreditation of Florida State University. The Commission on Colleges is to be contacted *only* if there is evidence that appears to support the University's significant noncompliance with a requirement or standard.

For departmental/field accreditations, refer to the respective college or school's chapter in this *General Bulletin*.

Carnegie Foundation Classification

In its 2018 report, The Carnegie Foundation classified Florida State University in the "Doctoral Universities: Very High Research Activity" category, its highest category for a graduate-research university. Florida State University is one of 131 American universities (94 public) to have earned this designation. In addition, a 2020 report selected Florida State University for the Community Engagement Classification. This competitive designation recognizes Florida State's commitment to exemplary institutional practices of engagement within its local, state, and global community.

UNDERGRADUATE ADMISSIONS

Director of Admissions: Hege Ferguson
Program Directors: Mike Sklens
Associate Directors: Lori Hamilton, Christina Smith, Julie Rubin Anthony Russo
Assistant Directors: Tyler Eddinger-May, Allison Helms, Lisa McGrady, Stephanie Robinson, Jermaine Williams
Panama City Campus Director: David Henry

General Information

Florida State University encourages applications for admission from qualified students regardless of race, creed, color, sex, religion, national origin, age, disability, veteran or marital status, sexual orientation, gender identity, gender expression, or any other protected group status in accordance with all pertinent federal, state, and local laws on non-discrimination and equal opportunity. Admission of students to Florida State University is within the jurisdiction of the University, but subject to minimum standards adopted by the Florida Board of Governors. Satisfaction of minimum admission requirements does not guarantee admission to Florida State University. Admission shall be on a competitive basis within curricular, spatial, and fiscal limitations.

An application for admission is available online at *http://admissions.fsu.edu*. When applying for admission, the Federal Privacy Act of 1974 allows colleges and universities to require the disclosure of social security numbers for the purpose of identification and verification of student records, including registration, financial aid, and academic records, and for verification of identity in connection with the provisions of its services. The University does not use social security numbers for student identification; instead, the University assigns a unique Florida State University student identification number.

The Office of Admissions encourages first year in college students to submit a complete application by December 1 for an admission decision on February 18. Starting March 1, admissions decisions will be provided on a rolling basis. Transfer applications are reviewed on a rolling basis. An application cannot be submitted earlier than one year prior to the term for which admission is desired. In addition, the University reserves the right to close admission earlier than the published deadline(s), and/or increase requirements, if warranted by enrollment limitations and the number and quality of applications.

The Office of Admissions will post all decisions electronically on the Application Status Check, an applicant's private account created at the time of application. Admission is for a specific term, and if the student is unable to enroll for the term indicated on the Application Status Check, the Office of Admissions should be notified immediately. If a transfer student wishes to be considered for a different term, the student must submit a new application, an application fee, and updated official transcript(s). A change in term will result in a re-evaluation of the application. The applicant should not assume that admission will automatically be granted when requesting a term change.

The University reserves the right to request an evaluation of any international academic document. (For transfer credit, an official course-by-course evaluation is required.) We recommend this evaluation be done by a member of the National Association of Credential Evaluation Services.

Offers of admission to the University are often contingent upon the subsequent receipt of official college, university, and/or high school transcripts indicating successful performance and verification of high school graduation. Poor performance and/or failure to meet the stipulated conditions of admission can result in the offer of admission being rescinded. Failure to submit such documents before enrollment can result in the cancellation of admission and registration.

Undergraduate applicants who are denied admission to the University may appeal the admission decision if they have evidence that, due to extenuating circumstances or prior unrevealed information, the admission decision rendered was inequitable. Applicants are requested to appeal in writing to the Admissions Committee through the Director of Admissions.

An application or residency statement submitted by or on behalf of a student that contains false, fraudulent, or incomplete statements may result in denial of admission or denial of further registration and/or invalidation of Florida State University credit and related degrees.

Prior to registering for classes, accepted students must be health compliant. For information regarding this requirement, refer to *http://uhs.fsu.edu*. Florida State University reserves the right to cancel the admission of an applicant whose health record indicates the existence of a condition that may be harmful to members of the University community.

Admission from Secondary School

An applicant who desires admission as a first year in college student after graduating from a regionally accredited high school (or comparable international institution) must provide the Office of Admissions with the following:

Application for Admission. The completed application for admission and a nonrefundable $30.00 processing fee should be submitted as soon as possible at the beginning of the senior year. Students can submit the FSU institutional application online at *http://admissions.fsu.edu/*;or use the Coalition for College application found at *http://www.coalitionforcollegeaccess.org*; or use the Common Application found at *http://www.commonapp.org/*. If application payment is by check or money order, it must be made payable to Florida State University and drawn on a U.S. bank. Accepted application fee waivers include a fee waiver from the American College Testing (ACT) Program, the College Board (SAT), or the National Association for College Admission Counseling (NACAC). Students that are Pell eligible are also eligible to receive a waiver of the application fee. The application will not be processed without an application fee or approved application fee waiver.

Self-reported Student Academic Record. The Self-reported Student Academic Record (SSAR) is an online transcript, created by the student, that lists the courses and associated grades attempted (including courses in progress if applicable) for high school and/or college credit. It replaces the high school and college transcripts used by the Office of Admissions during the initial application review process. Detailed information on the SSAR can be found at *http://admissions.fsu.edu/freshman/ssar/*. Since accuracy is critical, applicants are advised to have a copy of their high school transcript available to use as a reference when creating the SSAR.

> **Note:** *All domestic and international applicants who have not followed an educational curriculum patterned after the U.S. system, or GED graduates do not complete the SSAR. Instead, they must submit their secondary school credentials. For students following an educational curriculum not patterned after the U.S. system, refer to the 'Academic Records' portion of the "International Student Admission" section of this chapter for details on what to submit. GED applicants must submit an official GED transcript and an official high school transcript showing coursework and grades completed prior to taking the GED.*

College Transcripts. Students who have registered for coursework at a college or university while in high school must submit a final and official transcript from that post-secondary institution before enrolling at the University. Transcripts are considered official when they are sent directly from the college or university to the Office of Admissions and contain an official seal and/or signature. Transcripts bearing the statement "Issued to Student," notarized transcripts, or transcripts submitted by the applicant are not considered official. [An official course-by-course evaluation is required of all academic records from non-U.S. institutions. Refer to 'Transfer Credit' in the "International Student Admission" section of this chapter for details.]

Test Scores. Applicants are able to self-report all test scores through the Application Status Check. Official ACT or SAT scores are required of all first year in college applicants if granted admission to the university and must be sent directly from the testing agency to the university. Either one or both of these tests should be taken no later than the February in the senior year. Since the highest combination of scores is always considered, students should feel free to repeat a test.

Letters of Recommendation. Letters of recommendation are not required and will not be used in the decision-making process. Applicants denied admission to the University who plan to appeal may submit letters of recommendation and other supporting documentation to support their appeal.

Auditions

Auditions are required of all applicants planning to major in music, dance, or the bachelor of fine arts (BFA) degree program in theatre. In addition to submitting an application for admission and other supporting information, prospective students should visit the Web sites for the College of Music (*http://music.fsu.edu*) or the College of Fine Arts (*http://cfa.fsu.edu/*) for details.

Departmental Application

A departmental application is required of all applicants planning to major in animation and digital arts; motion picture arts-production; studio art or theatre. In addition to submitting an application for admission and other

supporting information, prospective students should visit the Web sites for the College of Motion Picture Arts (*http://film.fsu.edu*) or the College of Fine Arts (*http://cfa.fsu.edu/*) for details.

Deadlines for Applications and Supporting Documents for Secondary School Applicants

Applications and all supporting documents received by:	Decision by:
December 1 (Priority deadline)	February 18
March 1	Rolling

All information used to make an admission decision must be received by one of the published deadlines. The University does not ordinarily accept first year in college applications for the Spring term. Deadlines for submitting applications and supporting documents for the Panama City campus may differ from the FSU Tallahassee campus. Refer to "Admission to the Panama City campus" section of this chapter.

Admission Requirements

Academic Qualifications

The academic profile of the middle fifty percent of first-year students accepted in 2020 was: 4.1–4.5 academic GPA; 28–32 ACT composite; 1260–1400 SAT total score. In addition to academic GPA and test scores, a variety of additional factors are considered. These include an essay, the rigor of curriculum, grade trends, and educational objectives. Applicants who bring other important attributes to the University community may also receive additional consideration. These applicants include first generation and socio-economic disadvantaged students applying to CARE, visual and performing artists, and skilled athletes.

For students taking dual enrollment classes either in high school or at a college/university, their college career has begun. First year in college applicants who have earned thirty or more hours of college credit while in high school should also consult the department website to see if they should submit additional materials. Any grade below "C" (2.0) is cause for concern, and could prevent the applicant from being admitted to the University, or cause the offer of admission to be rescinded.

Required High School Course Units

Specific high school course units are required for admission to the first-year class. An academic unit is the equivalent of a year-long course that is not remedial in nature. Upon graduation from high school, applicants must have earned four units of English (at least three with substantial writing requirements); four units of mathematics (algebra I level and higher); three units of natural science (at least two with laboratory); three units of social science (includes history, civics, political science, economics, sociology, psychology, and geography); two sequential units of the same world language; and two elective units (preferably from the English, mathematics, natural science, social science, or world language areas). The units listed above represent the minimum required for admission consideration but do not guarantee admission. Most students accepted to the University exceed the minimums.

Calculation of High School Academic GPA

Only the academic core subjects will be used in the calculation of the grade point average for admission purposes. We do not use the GPAs listed on the high school transcript or report card. Grades of "C" or better in dual enrollment, AICE, AP, and IB coursework will be weighted and receive one point in the recalculation; grade of "C" or better in honors, pre-AICE, pre-AP, and pre-IB coursework will receive one half point. For repeated courses, we will use all attempts in the recalculation.

Accuracy on the SSAR is extremely important and all students accepted to the University who have deposited will have their courses and grades validated upon receipt of the final high school and college transcript(s) sent to us upon graduation. Students with discrepancies between the SSAR and the official high school transcript and/or official college transcript(s) may have their admission revoked if admitted, or have their registration cancelled if enrolled.

ACT/SAT Information

We recommend applicants take both the ACT and SAT since Florida State University uses only the highest composite or total score for admission and scholarship purposes. They may wish to take each exam more than once since the highest subscores are used to create the ACT composite score and SAT total score. Applicants are not required to submit the optional ACT writing score or the SAT essay score.

High School Students Earning Thirty or More Semester Hours While in High School

Applicants who are graduating from high school and earning thirty or more college credit hours, or the AA degree simultaneously, must meet first-year requirements for admission and be approved by the academic program to which they are applying. All majors have individual milestones (prerequisite college courses and/or specific college grade point averages) that must be met. In addition, some majors require auditions, departmental applications, portfolios, or other information for consideration. Refer to the "Academic Departments and Programs" section of this *General Bulletin* or *http://www.academic-guide.fsu.edu* for details.

Note: Communication, communication disorders, dance, education, film, interior design & architecture, music, nursing, social work, studio art, and theatre require additional application materials and have individual earlier application deadlines. See the department Web sites for instructions on how and when to apply for these programs.

Home Education and GED Information

Applicants who have graduated from a home education program must submit a final, official home education transcript that includes a list of all coursework attempted and grades and units for each course completed. If the applicant previously attended another school, or has completed coursework through a virtual school or dual enrollment at a college or university, official transcripts are required and those courses should be reflected on the home education transcript.

Applicants who present a GED transcript will also be considered for admission. An official GED transcript must be submitted and accompanied by an official high school transcript through whatever portion of high school was completed. Home education and GED applicants must also submit ACT and/or SAT test scores.

Center for Academic Retention and Enhancement (CARE)

Through the Center for Academic Retention and Enhancement (CARE) Summer Bridge Program, the University offers a special admission program dedicated to assisting students who are the first generation in their family to attend college and who are socio-economically disadvantaged. CARE provides a comprehensive program of orientation and academic support designed to ease the transition from high school to college and to build a strong academic foundation. Students admitted to the University through the CARE Summer Bridge Program will begin their studies in the summer and maintain their membership throughout their enrollment at FSU. Interested students should submit an application for admission to the University, CARE supplemental questions, Self-reported Student Academic Record, ACT or SAT test scores, and the Free Application for Federal Student Aid (FAFSA). The minimum requirements for consideration include a 3.0 academic GPA as recalculated by the Office of Admissions and either an ACT composite score of 19 or SAT total score of 990. Meeting the minimum requirements does not guarantee admission to the program.

First-Year Scholarships

All first year in college students who are admitted to the University are automatically considered for merit-based scholarships. Recipients are selected based upon high school grades and test scores. Because scholarships are limited, students with strong academic records should apply to the University by the priority deadline.

Early Admission

Florida State University provides outstanding high school students with an opportunity for early entry into the University. The following guidelines are used to consider these students: (1) sufficient maturity as evidenced by age at the time of admission and/or written recommendations supporting the candidate's maturity; (2) a 4.0 or better weighted high school GPA in the academic subjects; (3) a minimum composite score of 29 on the ACT or total score of 1340 on the SAT; (4) sufficient strength in the academic units; (5) evidence of a lack of curricular opportunity in the existing high school setting; and (6) three letters of recommendation, one of which must be from the high school principal or a representative of the principal.

First-Year Admission Deposit

All first year in college students who are admitted to the University are required to submit a $200.00 nonrefundable admission deposit by May 1 to secure a place in the first-year class unless qualifying for a waiver of the

admission deposit. Upon enrollment, the deposit will be applied toward the student's tuition. Students admitted for Spring semester will not submit an admission deposit.

Admission by Transfer

Applicants are considered transfer students if they have earned twelve or more semester hours of college credit from a regionally accredited college or university (or comparable international institution) as evaluated by the Office of Admissions after graduation from high school. Applicants desiring admission by transfer must provide the Office of Admissions with the following:

Application for Admission. A completed application for admission and a nonrefundable $30.00 processing fee should be submitted six to nine months prior to the desired term of enrollment. The preferred method of payment is online at *http://fees.fsu.edu*. If payment is by check or money order, it must be made payable to Florida State University and drawn on a U.S. bank. The application will not be processed without this fee, and there are no provisions to have it waived or postponed.

College Transcripts. Official transcripts from **each** college and university attended must be submitted to the Office of Admissions. Transfer credit posted on the record of another institution is not accepted in lieu of submitting the official transcript from the original institution. Transcripts are considered official when they are sent directly from the college or university to the Office of Admissions and contain an official seal and/or signature. Transcripts bearing the statement "Issued to Student," notarized transcripts, or transcripts submitted by the applicant are not considered official. [An official course-by-course evaluation is required of all academic records from non-U.S. institutions. Refer to 'Transfer Credit' in the "International Student Admission" section of this chapter for details.]

Secondary School Record. An official high school transcript is required of all transfer applicants. The transcript must reflect all attempted high school credits and the date of graduation.

Test Scores. Official ACT or SAT test scores are required of all freshman/sophomore-level applicants.

Exam Results. All AICE, AP, IB, and/or CLEP results should be submitted if college credit has been earned. Refer to the tables at the end of the "Academic Regulations and Procedures" chapter in this *General Bulletin* for required scores and course equivalents for which credit is granted.

Deadlines for Applications and Supporting Documents for Transfer Students

Spring term	November 1
Summer term	March 1
Fall term	June 1

Note: Some departments may have earlier deadlines than those established by the University, or may admit only for a specific term. If the University deadline falls on a weekend, applicants have until the following Monday to submit applications and all supporting documents. Deadlines for submitting applications and supporting documents for the Panama City campus may differ. Refer to "Admission to the Panama City campus" section of this chapter.

General Admission Requirements – Transfer Applicants

World Language Admission Requirement

All transfer applicants must have satisfied the state of Florida's world language admission requirement by having earned two sequential units in one world language (i.e. proficiency through Spanish II) in high school or having completed through the second elementary/beginning course of one world language (i.e. proficiency through SPN 1121) in college (or documented equivalent proficiency). American Sign Language is accepted as a world language.

College-Level Proficiency Skills in English and Mathematics

All transfer applicants must have demonstrated college-level proficiency in English and mathematics prior to being considered for admission. This can be achieved by having a minimum of three semester hours of approved college-level English composition and a minimum of three semester hours of approved college-level mathematics with no grade below "C".

Associate of Arts (AA) Degree

Applicants who have received an Associate of Arts (AA) degree from a Florida public institution immediately prior to transfer receive priority consideration for admission, provided an application and all supporting documents have been received by the deadline.

Senior-Level Applicants

Senior applicants (90+ semester hours of transferable credit as determined by the Office of Admissions) must:

- have a minimum GPA of 2.00 on all attempted college courses. In calculating your GPA, we use all attempted courses (including D's, F's, and WF's) from every college you have attended. If a course is repeated, we will use both grades.

  Note: The best indication of your potential academic success at Florida State University is your calculated transfer GPA. **Very few students with less than a 3.0 calculated GPA will be admitted.**
- be in good academic standing and have at least a 2.0 calculated GPA on all work attempted at your last institution.
- submit a personal statement indicating the reasons why you wish to transfer to Florida State University at a time which we consider to be late in your academic career and potentially not in your best interests. The statement should include a plan for timely graduation.

Junior-Level Applicants

Junior applicants (60 to 89 semester hours of transferable credit as determined by the Office of Admissions) must:

- have a minimum GPA of 2.00 on all attempted college courses. In calculating a transfer GPA, we use all attempted courses (including D's, F's, and WF's) from every college the student has attended. If a course is repeated, we will use both grades. Applicants must also be in good academic standing with a minimum 2.0 calculated GPA at the last institution attended.

  Very few students with less than a 3.0 calculated GPA will be admitted.

Personal Statement

All transfer applicants must have demonstrated satisfactory academic progress to be eligible for admission. Applicants who will have attempted 90+ semester hours of college credit (including withdrawals and repeated courses) before enrolling at Florida State University must upload a personal statement to be considered by the Office of Admissions. The statement must address the reason(s) for transferring to FSU this late in the academic program and should also include a plan for a timely graduation.

Freshman/Sophomore-Level Applicants

Freshman and sophomore applicants (12–59 semester hours of transferable credit as determined by the Office of Admissions) must:

submit official ACT and/or SAT results for every test taken and have a strong academic high school profile that is indicative of success at the college level. In addition, the applicant must have a minimum GPA of 2.00 on all attempted college courses. In calculating a GPA, we use all attempted courses (including D's, F's, and WF's) from every college the applicant has attended. If a course is repeated, we will use both grades. Applicants must also be in good academic standing with a minimum 2.0 calculated GPA at the last institution attended.

Very few students with less than a 3.0 calculated GPA will be admitted.

Major Requirements

All transfer applicants must meet requirements for admission to the University and to the major/program of interest. For information about a major/program of interest, refer to the "Academic Departments and Programs" section of this *General Bulletin* or *http://www.academic-guide.fsu.edu* for more details.

Note: Athletic training, communication, communication disorders, dance, dietetics, education, entrepreneurship, film, interior design & architecture, music, nursing, social work, and theatre require additional application materials and have earlier application deadlines. See the department websites for instructions on how and when to apply for these programs.

Excess Credit Hour Surcharge

In 2009, the Florida Legislature implemented a new law (Section 1009.286, FS) to encourage students who enroll in a state university to complete the baccalaureate degree program as quickly and efficiently as possible. It estab-

lished what is commonly referred to as an "Excess Credit Hour Surcharge" by charging an additional student payment to those students who do not complete the baccalaureate degree in a timely fashion. Accelerated coursework (AICE, AP, IB, CLEP, and dual enrollment) taken while in high school will not be considered in this hour count. To learn more about this surcharge, refer to *http://registrar.fsu.edu/records/excess_hours/*.

Educator Preparation Programs

All students planning to pursue an educator preparation program at Florida State University must be formally admitted to Educator Preparation. Admission to Educator Preparation is administered by the Dean of the College of Education and assigned to the Office of Academic Services and Intern Support (OASIS), *2301 Stone Building*.

Application for admission to Educator Preparation is distinct from admission to an upper-division college or program and is a required step for graduation and certification.

Professional Behaviors and Dispositions

While enrolled in an educator preparation program, the student is expected to demonstrate behaviors and dispositions that conform to the "Code of Ethics" (State Board of Education Rule 6B-1.00, FAC) and the "Principles of Professional Conduct in Florida" (State Board of Education Rule 6B-1.006, FAC). The programs reserve the right to refuse or discontinue enrollment of any student who violates these expectations or, in the judgment of a majority of the program faculty, does not meet the program standards.

Section 1004.04, Florida Statutes, *Public Accountability and State Approval for Teacher Preparation Programs*, and State Board of Education Rules 6A-4.0021 and 6A-5.066 require that all students seeking admission to undergraduate teacher education programs at Florida State University meet the following requirements **prior** to entering the program:

1. Have at least a 2.5 (on a 4.0 scale) GPA on all college work attempted; and
2. Have a grade of "C–" or better in each required general education English and general education mathematics course; and
3. Take and achieve a passing score on all sections of the General Knowledge portion of the Florida Teacher Certification Examination.

Prior to entry into the degree program (upper division), students must have completed the state of Florida Common Course Prerequisites, which include: a) EDF 1005 and b) up to fifteen semester hours of general program prerequisites specified by each degree program (see degree program sections for specific prerequisites). FSU-Teach majors entering science or mathematics teacher preparation programs are exempt from the Education Common Course Prerequisite requirement.

Per policy adopted by the Florida State University Professional Education Advisory Council, students seeking readmission to a teacher education program shall be responsible for meeting the most current course, clinical, and certification requirements set out by that program; readmitted students in these programs will not be 'grandfathered' under the educator preparation requirements in effect at the time of original admission to the major.

Common prerequisites and admission criteria for state-approved teacher preparation programs are subject to revision based on changes in Section 1004.04, Florida Statutes, *Public Accountability and State Approval for Teacher Preparation Programs***, State Board of Education Rule 6A-4.0021,** *Florida Teacher Certification Examinations***, and State Board of Education Rule 6A-5.066,** *Approval of Educator Preparation Programs***.**

Limited-Access Programs

A limited-access program utilizes selective admission to limit program enrollment. Limited access status is justified when student demand exceeds available resources (student/faculty ratios, instructional facilities, equipment, or specific accrediting requirements). Criteria for selective admission include indicators of ability, performance, creativity, or talent to complete required work within the program. Admission to such programs is governed by the Articulation Agreement and by the State Board of Education administrative rules.

For a number of degree programs, access is limited at the upper-division level to those students meeting certain additional criteria. These additional criteria are applied equally to AA degree transfers from Florida public institutions and rising juniors at Florida State University.

Limited-access programs are offered by a number of different colleges. For specific requirements for admission to a particular department or college, refer to the appropriate section of this *General Bulletin*.

Limited Access Degree Programs at Florida State University Include:

- Accounting*
- Advertising (Communication)
- Athletic Training
- Business Administration (Panama City Campus only)
- Communication (Digital Media Production)
- Communication (Media & Communication Studies)
- Communication Science and Disorders
- Computer Science*
- Dance
- Dietetics
- Economics
- Elementary Education*
- Entrepreneurship (Commercial)
- Entrepreneurship (Social)
- Finance
- Global Club Management
- Hospitality Management
- Human Resources Management
- Interior Architecture & Design
- Management
- Management Information Systems
- Marketing
- Motion Picture Arts
- Music Education
- Music, Liberal Arts
- Music Performance
- Music Theory and Composition
- Music Therapy
- Neuroscience
- Nursing
- Psychology*
- Professional Communication
- Public Relations (Communication)
- Real Estate
- Retail Entrepreneurship
- Retail Management
- Risk Management/Insurance
- Social Work*
- Special Education Teaching
- Sport Management
- Studio Art, Bachelor of Fine Arts in
- Theatre
- Visual Disabilities

*Programs also offered on the Panama City Campus

Some limited-access majors admit only once per year. Please refer to the Program Description of the *Academic Program Guide* (*http://www.academic-guide.fsu.edu/***).**

International Student Admission

Applicants to Florida State University are considered international if they are not U.S. citizens, dual citizens, or Permanent Residents. The admission requirements and deadlines for international applicants can be found at the beginning of this chapter under "Admission from Secondary School" for first-year and "Admission by Transfer" for transfers. In addition, international applicants must provide the Office of Admissions with the following:

Academic Records. Official or certified copies of all academic records and/or examination results from **every** institution attended are required. Records are considered official only when sent directly from the issuing institution and must bear the original seal of the institution or the original signature of the institution's records official. All documents must be issued in the native language and be accompanied by certified English translations. Certified documents should be true copies that are signed and dated by an educational official familiar with academic records. Documents signed by a notary or other public official with no educational affiliation will not be accepted.

Transfer Credit. An official course-by-course evaluation is required of all academic records from non-U.S. institutions. We recommend the evaluation be done by a member of the National Association of Credential Evaluation Services (*http://naces.org*).

English Proficiency Test. If an applicant's native language is not English, the applicant must submit a minimum score of 550 on the paper-based or 80 on the Internet-based Test of English as a Foreign Language (TOEFL) or 6.5 on the International English Language Testing System (IELTS), or 55 on the PTE Academic examination. Score reports are considered official only when they are sent directly to the Office of Admissions from the testing agency and are not valid after two years.

Certification of Finances. The Certification of Financial Responsibility (CFR) must be completed before the Certificate of Eligibility (Form I-20 or DS-2019) is issued. The I-20 and DS-2019 are immigration forms presented to the United States Embassy/Consulate in order to obtain a U.S. student visa. The University is required by immigration authorities to verify the financial resources of each applicant prior to issuing the Form I-20 or DS-2019; therefore, it is important that the applicant knows the costs of attending the University and has the necessary funds. More information on the CFR is available at *http://cge.fsu.edu/international-students*.

Notice of Admission

Formal notification of admission to Florida State University comes from the Office of Admissions and is for a **specific** term. The Center for Global Engagement will process the appropriate immigration form (Form I-20 or DS-2019) necessary to obtain the student's visa when formal admission is granted and all required financial documentation is received.

If the student is unable to enroll for the term indicated on the Application Status Check, the Office of Admissions should be informed immediately. If the student wishes to be reconsidered for a different term, the student must submit a new application and application fee.

Finances

Before a United States Consul will grant a visa, international applicants must prove that they will have sufficient funding to meet all of their expenses while studying in the United States. Applicants provide documentation demonstrating the funding noted on their I-20 or DS-2019 and must certify that this funding will be available for the first year and that they understand funding must be available for the subsequent years of their degree program at FSU.

If the student's government limits the amount of money that can be sent to students in the United States, the applicant should make sure that sufficient funds will be available to cover all costs while at the University. When applicants leave their country, they must have enough money to pay for travel expenses to the University, fees for the entire term, living expenses until more money arrives, and the return fare to their home country. If the applicant's government requires verification of enrollment before money can be forwarded, the student may request verification from the Office of the University Registrar after registration is completed at the University.

On-campus employment opportunities are limited, and most international students are not permitted to work off campus except under special circumstances. Students should have access to approximately half of the estimated total yearly amount at the beginning of each semester, since University fees must be paid upon registration at the start of each term. Students should also be prepared for initial expenses such as housing deposits, insurance, utilities, etc. The most up-to-date cost estimates for international students can be found at *https://cge.fsu.edu/international-students/new-students*. These estimates are for unmarried students with no dependents. Additional funds must be included for a spouse and/or family.

Passports and Visas

International applicants need a current passport from their own government and a visa from the United States Embassy/Consulate to enter the United States. Applicants should apply for a passport as soon as possible, although in some countries it will be necessary to provide proof of admission to a school in the U.S. before a passport is granted.

Students already in possession of a passport must make sure it will remain valid for six months from the date they plan to enter the United States. It would also be prudent for students to check with the Embassy or Consulate of their native country to find out how passports are renewed while in the U.S. In some cases, students may need to get an extension of validity from their home country.

If students are coming to the University specifically for the purpose of studying, they need to apply for a Student Visa (F-1 or J-1). It is granted upon presentation of a Certificate of Eligibility (Form I-20 for the F-1 visa and Form DS-2019 for the J-1 visa which is typically granted to government-funded students) and proof that sufficient financial support to cover all expenses for the entire period of study in the U.S. is available. Undergraduate students holding F-1 or J-1 visas are required to carry at least twelve semester hours each semester.

Center for Global Engagement

The Center for Global Engagement (CGE) provides immigration advising and support services to international students. Upon arrival at Florida State University, international students must check in with the CGE and attend a mandatory orientation session for new international students. In addition to the International Student Orientation, all first year in college students and transfer (undergraduate) students must attend an orientation session through the Office of New Student and Family Programs.

Health Insurance Requirement

University Health Services provides outpatient care. Because students are likely to incur costs for medical care beyond that provided through outpatient services, adequate health insurance coverage must be obtained before they will be permitted to register for classes or to continue enrollment. In addition, international students with "J" visa status who will be accompanied by dependents are required by federal regulations to purchase health insurance coverage for all dependents. For more information regarding the health insurance requirement, refer to *http://uhs.fsu.edu*.

All applicants are **required** to complete and submit an immunization form that provides proof of required immunizations. Students will not be allowed to enroll until they have submitted the immunization form with proof of required immunizations and have purchased insurance or provided proof of health insurance that meets the minimum coverage required by the state of Florida.

Center for Intensive English Studies

English is the official language of instruction and communication at the University. International applicants who lack sufficient English language preparation must correct this deficiency before being admitted to the University. Students may do this in their home country or in the United States at a school that offers an intensive English language program. Florida State University offers such a program through the Frederick L. Jenks Center for Intensive English Studies. Detailed information on the Center may be obtained at *http://cies.fsu.edu*.

Successful completion of English studies at the Frederick L. Jenks Center for Intensive English Studies does not guarantee admission to Florida State University.

Admission to Graduate Study

Admission to graduate study involves admission to the department or college in which the applicant expects to study; therefore, final admission to the University is subject to approval by the specific program. While there are minimum University admission requirements, the departments can, and frequently do, set admission standards higher than these minimums. The student should determine departmental requirements first and then determine the University admission requirements. Consult the *Graduate Bulletin* for complete details.

Admission to the Panama City Campus

Undergraduate students who are interested in attending the Panama City campus should request information from the *Panama City Office of Admissions and Records, Florida State University, 4750 Collegiate Drive, Panama City, FL 32405-1099*, or apply online at *http://pc.fsu.edu*. The same policies, procedures, and requirements that pertain to first-year and transfer students at the Tallahassee campus apply to the Panama City campus:

Note: The required $30.00 application fee can be paid online immediately following the submission of the application, or by check or money order sent to the Panama City Office of Admissions and Records at the address listed above. Checks or money orders must be drawn on a U.S. bank and be made payable to Florida State University.

Deadlines for applications and supporting documents at the FSU Panama City campus are typically one month prior to the start of each term. Further information is available by calling the Office of Admissions and Records on the Panama City campus at *(850) 770-2160* or by visiting *http://pc.fsu.edu*.

Continuous Enrollment

Please refer to the "Academic Regulations and Procedures" chapter in this *General Bulletin* for continuous enrollment policies.

Readmission

Returning undergraduate degree-seeking students who: (1) have been absent from the University for three or more consecutive terms (including Summer); (2) have been dismissed from the University and have been absent for three or more consecutive terms (including Summer); (3) have withdrawn from the University and have been absent for three or more consecutive terms (including Summer); (4) have had their last term of enrollment at the

University administratively cancelled and have been absent for three or more consecutive terms (including Summer); or (5) have earned a bachelor's degree from the University and wish to pursue a second bachelor's degree, must submit an application for readmission to the Office of Admissions. Academically dismissed students are not eligible for readmission unless they have been reinstated by their academic dean. Reinstatement to continue does not guarantee a favorable readmission decision or admission into a specific major. Refer to the 'Dismissal and Reinstatement' section of the "Academic Regulations and Procedures" chapter of this *General Bulletin.*

Students who have attempted college work (including correspondence work) at any college or university since their last enrollment at Florida State University must have official transcripts sent to the Office of Admissions. Transcripts are considered official when they are sent directly from a college or university to the Office of Admissions and contain an official seal and/or signature. Transcripts bearing the statement "Issued to Student," notarized transcripts, or transcripts submitted by the applicant are not considered official.

The University reserves the right to deny readmission to any student who has an unsatisfactory academic, conduct, or health record. Students who are denied readmission to the University may appeal that decision by filing a written petition with the appropriate academic dean's office. Students who are denied readmission for judicial and/or conduct reasons may appeal by filing a written petition to the Admissions Committee through the Director of Admissions.

The readmission application and all supporting documents should be submitted by the published deadline of the term for which readmission is desired. (Consult the "University Calendar" chapter of this *General Bulletin* for specific deadlines.)

Readmitted students are subject to retention requirements in effect at the time of readmission. In addition, students claiming Florida residency must reestablish their eligibility for this classification when applying for readmission.

Readmission after Multiple Withdrawals

When a student has withdrawn from the University three or more times, subsequent readmission must first be considered by a committee whose charge is to assess the student's capability of making satisfactory progress toward a degree. This committee, appointed by the Council of Associate and Assistant Deans, will make a recommendation to the dean of the student's college who will make the final decision.

Non-Degree Seeking Student Admission

Enrollment as a non-degree seeking student is subject to approval by the Office of Admissions and may be open to high school and college graduates. Refer to the 'Admission Requirements' and 'Admission by Transfer' sections of this chapter for enrollment requirements. Applicants who have been denied admission as a degree-seeking student or who missed the deadline for submitting a degree-seeking application will not be considered for enrollment as a non-degree student. Students intending to register for graduate coursework under the non-degree status should consult the *Graduate Bulletin* for details.

The completed non-degree seeking student application must be accompanied by a $30.00 nonrefundable processing fee and all supporting documents. Applications should be submitted for consideration one semester prior to the desired term of enrollment. Consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines. The University reserves the right to close the application process earlier than the published deadlines if warranted by enrollment limitations.

A non-degree seeking student at Florida State University who subsequently decides to pursue a degree must apply for admission through the Office of Admissions. The student may be reclassified as a regular undergraduate student upon meeting undergraduate admission requirements. Enrollment as a non-degree seeking student does not guarantee admission to an undergraduate program.

Work taken as a non-degree seeking student does not automatically carry undergraduate degree credit; however, up to fifteen semester hours earned as a non-degree seeking student may be applied toward an undergraduate degree with approval of the appropriate dean after degree-seeking status is obtained.

The University generally does not issue I-20 or DS-2019 visa documents for international non-degree seeking students. At the request of a department, the University will provide a visa document for non-degree seeking students who are accepted for full-time enrollment in a certificate program. The department must contact the Center for Global Engagement (*http://cge.fsu.edu*), and the student must provide evidence of financial support and other information required by the United States government. In addition, the student must purchase or provide proof of health insurance coverage prior to enrollment. Foreign nationals on a student visa may not use the non-degree seeking student status other than to fulfill prerequisite requirements or for Summer enrollment if full-time status has been maintained during the academic year.

All registration by non-degree seeking students is on a space-available basis and, in some cases, may require departmental approval. For more complete details, see the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Florida Agricultural and Mechanical University/ Florida State University Interinstitutional Registration

A Florida Agricultural and Mechanical University (FAMU) student planning to participate in the Cooperative Program at Florida State University must obtain specific approval from the designated representative in the Office of the Registrar at FAMU. Approval is also required from the department offering the course at FSU. The completed co-op application must be returned to the Office of the Registrar at FAMU by the published deadline. (Consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines.) If approval to co-op is granted, the student will be registered for courses at Florida State University by a representative in the Office of the University Registrar at FSU. Some courses may have limited availability, and registration for these courses may be denied or delayed until drop/add at the beginning of the term. The approval of one institution does not bind the other to comply. All tuition and fees are paid at FAMU unless the course has additional departmental fees associated with it. Any departmental fees will be paid at FSU. Florida State University students planning to co-op at FAMU should refer to the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Interinstitutional Transient Students

A student at another institution who wishes to take advantage of special resources and/or programs not available at the home institution should submit an interinstitutional transient student application that has been approved by the home institution to the Office of Admissions by the published deadline. (Consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines.) If approval for transient status is granted, the student follows the prescribed registration procedures and adheres to the fee schedule established by this institution. The approval of one institution does not bind the other to comply. A Florida State University student wishing to enroll as a transient at another institution should refer to the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Note: Academic rules governing regular students (e.g., fees, drop/add, withdrawal, grading policies, etc.) apply to transient students.

UNDERGRADUATE ORIENTATION

New Student & Family Programs

Associate Dean of Students/Director: Alison Hughes; **Assistant Directors:** Courtney Pearson, John Tilley

Orientation is the first program that helps ease the transition to Florida State University and college life. During orientation, new students are given essential information about the University including: the University's policies and procedures, community values and standards, and academic requirements and opportunities. Students also receive practical advice on various aspects of student life, like how to buy textbooks, open checking accounts, get involved, or meet other students with similar interests.

Students participate in small groups led by currently enrolled students, who provide insight and guidance for their transition into the FSU community. Students also meet with an academic advisor, who assists them in the selection of their first semester of courses. After advising, students have the opportunity to register for courses at the end of orientation. Orientation is required. New students must attend and complete an orientation session before they are able to register for courses.

New Student & Family Programs provides sessions preceding each academic term.

Orientation sessions include a concurrent session for family members. During these sessions family members learn about the University, its services and academic programs, and meet with administrators and faculty. Family members have the opportunity to activate their free membership in Family Connection (*https://dos.fsu.edu/family*), an association for the family members of current Florida State University students, which strives to keep families informed and connected to the University.

Before coming to campus for orientation, all newly admitted, degree-seeking students are required to complete an Online Pre-Orientation module, which highlights various aspects of University life.

Students receive information and instructions about completing the Online Pre-Orientation module and registering for orientation upon admission via e-mail. Pre-registration for orientation is required and participants must pay a nonrefundable fee. For more information about orientation or other programs, please visit *http://dos.fsu.edu/nsfp* or contact New Student & Family Programs via phone at *(850) 644-2785* or email at *orientation@fsu.edu*.

Persons with Disabilities. Any student in need of specific services and reasonable accommodations should contact the Student Disability Resource Center, *1st Floor, Student Services Building; (850) 644-9566*; *https://dos.fsu.edu/sdrc/*.

Center for Global Engagement

Director: Cynthia Green; **Associate Director:** Kristen Hagen

In addition to the University Orientation mentioned above, new international students are also required to complete an Online Immigration Session (OIS) prior to arriving at FSU. The OIS provides information and guidance on various topics including housing, utilities, transportation, insurance, immunization and other health requirements, registration and fee payment, and more, to better prepare students for their arrival in Tallahassee. Through the OIS students also learn about maintaining their legal non-immigrant student visa status while obtaining their academic degree at FSU. Federal regulations make it essential that students know and understand their responsibilities under federal immigration law.

Upon arrival at FSU, international students are required to check in with the Center for Global Engagement (CGE) and attend various face-to-face orientation sessions for fall. The CGE offers an abbreviated orientation for international students beginning study in the spring semester or summer.

The CGE provides a variety of social and cultural programs such as International Coffee Hour, Global Café, Engage Your World Intercultural Dialogue Series, and other intercultural programs to promote interaction and increase cultural understanding among all FSU students. International students receive ongoing information about programs and services through weekly newsletters and social media.

Note: Incoming international students may register for classes only after presenting their immigration documents to the Center for Global Engagement staff, obtaining health insurance, clearing required immunizations at University Health Services, and completing the OIS.

To obtain more information on F-1 and J-1 student visa statuses and the Center for Global Engagement and its services and programs, please visit *http://cge.fsu.edu* or contact the Center for Global Engagement at *110 South Woodward Avenue;* phone *(850) 644-1702*; fax *(850) 644-9951*; e-mail: *cge@fsu.edu*.

UNDERGRADUATE ACADEMIC ADVISING/ACADEMIC SUPPORT SERVICES

Purpose

Advising is a process that includes collection of information, interpretation of data, and dissemination of facts regarding educational programs, courses of instruction, resources, policies, procedures, and career options. The University takes academic advising seriously and provides both in-person and online resources to support student progression and success. Together, the advisor and the student can discuss educational goals and map out an academic program that will achieve the student's long-range goals.

University Policy on Advising

General Statement on Advising

To progress satisfactorily through a degree program, each student must have available ample and accurate academic advisement, tailored to individual educational needs. Florida State University is committed to a strong program of effective academic advising for all of its students. Florida State University understands academic advisement to be a function considerably broader than assistance with course scheduling. Academic advising is a process that helps students interpret the values and benefits of higher education, assists students in their choice of educational and career objectives commensurate with interests and abilities, and examines the consequences of possible short- and long-range goals.

The faculty and staff of the University affirm their responsibility to make available to every student information about academic policies and requirements, timely notification of changes either in the University's policies and curricula or in the student's academic standing, assistance in evaluating course options and in planning successful completion of educational goals, guidance in developing decision-making skills, and referral to the various academic and student support services on campus available to help the student make the most of educational opportunities. Further, the faculty and staff affirm their responsibility to inform students clearly about their own responsibilities in the advising process.

The Student's Role in Advisement

Florida State University expects students to assume an ever-increasing responsibility for their own academic progress as they move through the University. To accomplish this goal, each student will:

1. Assume responsibility for knowing the rules, regulations, and policies of the University and the requirements pertaining to the student's degree program and will consult the University General Bulletin and Registration Guide for up-to-date information;
2. Furnish a current address and immediately inform the Office of the University Registrar of any changes of address;
3. Know the student's advisor, make timely contact with the advisor upon arrival on campus and during the first semester, and continue to see the advisor at least once a term until graduation;
4. See the student's advisor or academic dean immediately after being placed on academic warning or probation;
5. Notify the appropriate dean's office of any change in intended major or any problems the student is experiencing with advisement; and
6. Recognize that the matriculation catalog (i.e., the *General Bulletin*) governs each student's graduation requirements—this catalog remains in effect for six years for the bachelor's degree unless the student elects to meet the requirements of any subsequent *General Bulletin* published during the period of enrollment.

The Faculty's Role in Advisement

1. Each college or department will formulate its own plan to meet undergraduate advising needs and problems. The plan shall include attention to appropriate advising loads and to the method of recognizing and rewarding individual advisors' work in advisement for purposes of annual evaluation, promotion, and tenure. The plan, agreed upon by the appropriate unit, shall be filed with the Dean of Undergraduate Studies and updated whenever the unit makes significant changes in advisement policies.
2. Each unit shall designate one member of the faculty or administration as director, coordinator, or undergraduate advisor for the unit. This faculty member will serve as the unit's liaison with the Division of Undergraduate Studies to ensure that the advisors within the unit are kept abreast of changes in academic policies and procedures and to work with the Division of Undergraduate Studies to solve special advising problems. Units shall also monitor closely the quality of their advising and ensure that it meets the goals of the University.
3. The unit will not assign a first semester faculty member to advising unless there is ample evidence of prior college-level advising experience. Each advisor shall attend a workshop before beginning advising duties for the first time and at least every two years thereafter.
4. Recognizing that sound advisement and a successful undergraduate experience should begin even before the student arrives on campus, units shall communicate with students accepted as freshmen or transfer students who indicate an intended major, outlining requirements and preparatory work expected for specific degree programs. Such contact with admitted students shall be coordinated with the Office of Admissions.
5. Each unit will provide a planning guide for lower-division students working toward their majors—designed to help students understand course requirements, prerequisites, and sequences—to enable them to move into the major as efficiently and as well prepared as possible. A similar planning guide will be available for junior and senior students in the major. Both guides will be filed and updated annually with the Division of Undergraduate Studies.
6. Advisors should be aware that students transferring to Florida State University after the freshman year have as great a need for detailed information as do freshmen. Extra care should be taken to inform these students of Florida State University's rules and regulations, which may differ from their previous college-level experience.
7. Advisors should also be aware of the special needs of the exploratory/undecided majors they advise. Directors or coordinators of advising in each unit should take care to inform advisors of Advising First, the Career Center, and other services on campus available to such students.
8. Advisors should inform students who may have other special needs (e.g., part-time students, disabled students, returning students, minority students, etc.) of the student support services available to them. Directors or coordinators of advising in each unit will ensure that advisors are aware of these student support services.
9. Advisors should take a role in identifying students who are working toward certain majors that may be inappropriate (e.g., a student with low math test scores and/or poor math preparation seeking a major in computer science or engineering). Such students may be referred to the Advising First Center for Academic Planning in *A3200 University Center* for information about their academic options and to the *Career Advising and Counseling (CAC)* unit of the Career Center for help in clarifying their interests and abilities; *http://www.career.fsu.edu*; *Dunlap Student Success Center*; *(850) 644-6431*.
10. Units should identify students who have declared a limited access major but who, it appears, are unlikely to be able to meet the special admission requirements of that major. Such students should be made aware as early as possible of the strong likelihood that their intended major will be closed to them. Advisors may wish to refer these students to the Advising First Center for Academic Planning, *A3200 University Center*.

Advising Organization

The **Advising First Office** assigns most entering freshmen and lower-division transfer students to an advisor, with the exception of those accepted into the College of Motion Picture Arts, and the Departments of Dance and Theatre BFA Programs (College of Fine Arts). In these programs, advisors are assigned by the dean of the respective schools. Typically, students are assigned to either full-time professional or faculty advisors. Advisors of freshmen and sophomores assist students with understanding General Education/Liberal Studies requirements and other University policies and procedures, as well as needed requirements to successfully progress into their major of choice. (See the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for a discussion of the *Liberal Studies for the 21st Century* program and other degree requirements.)

Upon entering a major, usually around the junior year, the focus of advising shifts from General Education to major, college, and graduation requirements. In some cases, this means that the student is assigned to a new advisor who will assist with all requirements for the chosen academic major.

Assignment of Advisors

Advisors are initially assigned based on information provided to the University during the admission process. The Advising First Office assigns advisors for most lower-division students. Upper-division students are assigned advisors through the Advising First Office or the dean's office of their college or school. Academic advisor contact information may be located by visiting *http://advisor.undergrad.fsu.edu/advisors/advisor-display.php*.

Academic Mapping ("Mapping")

Mapping is Florida State University's academic advising and monitoring system that provides students with a recommended eight-semester Map for each major. The Map is a plan for completing the bachelor's degree in four years in most programs. The map for each major may be viewed online within the Academic Program Guide at *http://www.academic-guide.fsu.edu/*. A student's academic Map Term is determined at the point of admission to the University.

Students' academic progress is monitored each Fall and Spring semester to ensure that they are on course to earn their degrees within four years. Summer semesters are not included in Mapping and may be used by students to either catch up or get ahead with coursework in their programs. Students are responsible for checking their own progress and are encouraged to contact their advisors with any questions concerning their programs of study. In addition, advisors will contact students who are not making appropriate progress. Students who intend to change their majors should do so as early as possible. This will enable appropriate advisor assignment and degree monitoring.

Entering freshmen are encouraged to select their majors at the time of admission so that advising may be tailored to their specific program requirements. For those students who want to explore majors at FSU, the University encourages the option of the Exploratory major. Students in this major are expected to declare a formal departmental major by the end of their first academic year of enrollment. For information on the exploratory process contact the Center for Exploratory Students located in the Johnston Building (*G002 WJB*) at *exploratoryadvising@admin.fsu.edu* or *(850) 645-2847*. Although the exploratory major is a good option for undecided students in their first semesters at the University, students must declare a major before they can be certified into an upper-division degree program. See 'Progression to Upper Division' in the chapter "Undergraduate Degree Requirements" in this *General Bulletin* for additional details.

Entering transfer students must be accepted into a specific major at the time of admission. These students do not have the option of the exploratory major. Transfer admission is a holistic and selective process. All transfer applicants must meet requirements for admission to the University and to the major/program of interest. See 'Admission by Transfer' in the chapter "Admissions" in this *General Bulletin* for additional details. As this is a two-step process and multiple factors are involved in an offer of admission, acceptance into a specific major is not guaranteed.

In regards to transfer admission, each major/program of interest at Florida State University has a set of required prerequisites that must be successfully completed for admission consideration and prior to enrolling in the major. For required pre-requisites to a specific major/program of interest, please refer to the 'Program Description' and 'Academic Map' within the Academic Program Guide at *http://www.academic-guide.fsu.edu/*. For any questions about these, please contact the 'Mapping Coordinator' at the e-mail address provided in the 'Academic Map'.

Transfer students are expected to pursue the major they have been admitted to through to graduation. Due to the restrictions of FSU's Mapping program, it is unlikely that a transfer student would be able to change majors at a later time. Students who are not admissible to their choice of major as a result of missing a required prerequisite(s) are strongly encouraged to remain at their current institution to complete any missing prerequisite(s) rather than choosing a major which does not compliment the student's academic and career goals.

University Policy on Map Terms

Students are entitled to a single-term Map Term roll-back, at the point of changing majors, if it places the student on-course with the new major. Students can only use this option one time in their undergraduate career. "Limited Access" majors may have additional restrictions. **Note:** This roll-back is not to be used for the purposes of meeting GPA Milestones.

Students who are off course for two consecutive semesters will receive the "Mapping-Major Change" service indicator and be required to change to a more appropriate major. Students who receive this service indicator have the option to petition the academic dean of their current major for consideration to enter into a one semester "Mapping Contract" to allow them an opportunity to remain in the major. **Note:** "Mapping Contracts" are not guaranteed for any students for any major, especially those majors with specific course grade or GPA requirements.

Minimum Progress

Students do not have to complete all of the recommended classes on their Maps to remain on course; however, they must meet certain minimum requirements known as "Milestones" through the Map Term they are currently in. Milestones may include a minimum grade point average (GPA), completion of specific classes, and/or minimum grades in one or more of the Milestone classes. Milestones are identified on each major Map.

Students who are off course are notified of such status by the University. Before registering again, these students must meet with an advisor in order to either: (1) determine what is necessary to get back on course; or (2) identify possible alternative majors. If students are off course for two consecutive semesters, they will be required to change to a more appropriate major (see 'University Policy on Map Terms' below). Students will not be permitted to change to majors for which they would be off course for more than one semester.

Declaring or Changing Majors

Students are encouraged to declare an intended major and to meet with an advisor in that academic discipline. The declared major is extremely important because it may allow a student access to specific courses for that major.

Lower-division students are allowed to change their major at any time during a semester, provided they meet the eligibility requirements of the new major. Students should first meet with an academic advisor of the intended major to see if they are eligible to change and, if so, submit a completed major change form to the Advising First Center for Academic Planning, *A3200 University Center*. Upper-division students should contact the academic dean's office of the intended major to see how to proceed.

Students seeking to change their major must be on-track with the Milestones of the intended major for the Map Term they are currently in (or minus one).

For an upper-division student to change colleges within the University, the student must meet the following requirements:

Obtain a signed approval form from the dean of the college to which the student wishes to transfer. The original copy of the approved change form, or notification from the academic dean, must be submitted to the Office of the University Registrar. The academic dean's office of the new college may choose to process the major change within the student system and retain the documentation within their office.

Students seeking to add a second major must be on-track with the Milestones of the intended second major for the Map Term they are in (or minus one) at the point of adding the second major. However, the second major will *not* be monitored by Mapping afterwards. If the primary major is a "Limited Access" one, students must have approval from that major to add a second major before doing so. All second majors *must* be declared/added by the end of the semester in which a student will earn ninety cumulative credit hours toward their degree program at Florida State University.

Orientation Advising

Incoming students may change previously provided information concerning their major at orientation check-in.

The first academic advising experience for all students occurs during orientation. Due to time constraints, this session usually consists of brief general information and course selection. Students are strongly urged to contact their advisors early in their first semester for an individualized advising appointment.

Department Advising

All freshmen and sophomores are required to see their academic advisors prior to registration each semester. Some major departments prevent students from registering if they have not seen their respective advisors. Contact information for advisors is available at *http://advisor.undergrad.fsu.edu/advisors/advisor-display.php* or by calling either the dean's office for the college or school or the academic department of the intended major. The Advising First Center for Academic Planning in *UCA 3200* maintains a list of academic advisors for lower-division students.

The academic relationship should be a comfortable and personal one between the student and the advisor. Sometimes, due to personality conflicts or shifting academic interests, this relationship does not develop. Students in this situation may request reassignment to a different advisor through their dean's office.

Exploratory Major

Students are encouraged to declare a major early in their academic career at Florida State University to ensure proper advisement and course selection. If students are unsure as to which major they wish to pursue, the University offers an **exploratory major** in which they can examine their academic options and receive specialized support from academic advisors who are specifically trained to provide this assistance. Freshman students still deciding on a specific major should contact the Advising First Center for Exploratory Students in *Johnston Ground* (WJB) at *(850) 645-2847*. Sophomore students still deciding upon a specific major should contact the Center for Academic Planning located in *University Center A3200* at *(850) 644-3430*.

Although the exploratory major is a good option for undecided students in their first semesters at the University, students **must** select a departmental major before they can be certified into an upper-division degree program. See 'Progression to Upper Division' in the chapter "Undergraduate Degree Requirements" in this *General Bulletin* for additional details.

Advising First

Advising First is a program within the Division of Undergraduate Studies at Florida State University that places professional academic advisors throughout the University's many academic units. Specifically, Advising First advisors provide academic advising to assist students in meeting General Education/ Liberal Studies and major requirements. Currently, the program has approximately forty-five professional advisors in numerous locations throughout campus.

Along with being housed in colleges and departments, Advising First advisors are also available in the Center for Academic Planning (*UCA 3200*), the Center for Exploratory Students in *Johnston Ground (WJB*), the *Classroom Building* (*Room 320 HCB*), and *Strozier Library* (*main floor*). The Center for Exploratory Students focuses on advising freshman students who are not ready to declare an intended major when they enter the University. This center works closely with students to help them take the appropriate General Education and introductory courses while exploring their available academic and career options. The Advising First Center for Academic Planning, located in *University Center A3200*, focuses on working with sophomore Exploratory students, assisting students with major changes, and working with students who are required to change their majors under the University mapping system. Advising First Center for Academic Planning: *A3200 University Center*; *(850) 644-3430*; *http://AdvisingFirst.fsu.edu.*

Advising Report

Florida State University has implemented a computerized advising system to help both students and advisors monitor academic progress. The Academic Requirements Report outlines requirements the student has already met and those the student has yet to complete. Students may view their reports online by selecting the "My Academics" option within the Student Center, available through the myFSU portal. Individual requests for Academic Requirements Reports may be made at the Advising First Center for Academic Planning, *A3200 University Center*.

Pre-professional Majors

FSU does not have a formal Pre-Law major. Students can prepare for admission to law school through a variety of majors, ranging from the arts to technical/scientific disciplines. Often, a minor or emphasis in relevant law-related courses as well as out-of-classroom experiences, including leadership in student organizations, community service, international study and internships, add to student's preparation for admission to law school. Students interested in pursuing law after their undergraduate degree may contact an FSU Pre-Law Advisor to discuss their goals, plans, undergraduate engagement, and the application process. Information on Pre-Law Advisors, student organizations, and other pre-law resources may be found at *http://prelaw.fsu.edu.*

The **Pre-Health Professions Advising Office**, part of the overall outreach effort of the Florida State University College of Medicine, provides career counseling to students interested in pursuing a career in the health sciences. Advisors can assist students in developing strategies leading to acceptance into medical, dental, veterinary, and other programs. Students are encouraged to meet with an advisor as soon as possible in their college careers and at least once each semester thereafter. Information about pre-health organizations is also available through this office. For further information, visit the *College of Medicine*, *1160A MSB*, or call *(850) 644-7678*.

Student Athlete Academic Services

Student Athlete Academic Services (SAAS) assists student-athletes with the transition into college and provides continued support in all phases of academic and professional development throughout college, culminating with graduation, job placement, or graduate school. Program staff provides academic counseling, study skills development, and additional academic assistance through tutorial programs. This supplements the sound educational practices (class attendance, note taking, reviewing and preparing properly for quizzes and exams, actively participating in class discussions, and staying current with all assigned readings) that are imperative for academic success. *D2108 University Center* and *D3103 University Center*; *(850) 644-9201*; *http://saas.fsu.edu/*.

Center for Academic Retention and Enhancement (CARE)

Florida State University and the **Center for Academic Retention and Enhancement (CARE)** are committed to recruiting, retaining, and graduating students traditionally underrepresented in higher education, with particular focus on first-generation and economically disadvantaged students at FSU.

CARE is designed to provide first-generation and other traditionally underrepresented students with services such as exclusive, full-credit Liberal Studies courses, academic advising, college life coaching, financial aid and literacy advising, academic tutoring, a computer lab, learning skills workshops, graduate school preparation, and cultural enrichment activities. The Center promotes a caring environment for students to discuss their academic, personal, and/or social concerns with friendly, supportive staff.

The Center provides a high-school-to-college **Summer Bridge Program** that includes intensive academic and social orientation to the University, introduction of participants to the responsibilities and opportunities of college life, encouragement of the development of useful study habits, and assistance with recognizing potential for success. The **Student Support Services (SSS)** program is designed to provide supplemental academic support and preparation for post-graduation career and educational planning for qualified students. The **Student Support Services-STEM** program provides qualified students majoring in a STEM field with additional tutoring, workshops, and post-graduation planning. In addition, through the **Unconquered Scholars Program**, CARE provides additional academic and engagement support activities for students who were a part of dependency care, foster care, or homeless before their enrollment at FSU. Thagard Building, *109 Collegiate Loop; (850) 644-9699*; *http://care.fsu.edu.*

CARE Pre-College Programs

College Reach Out Program (CROP) is a state-funded program established to identify, motivate, and prepare disadvantaged middle and high school students to pursue post-secondary education. Through supplemental academic assistance, enrichment activities, educational field trips, and college tours, CROP prepares students for the rigors of a college education.

The **University Experience Program** is the Summer residential component of CARE offering targeted high school students from socioeconomically disadvantaged backgrounds the opportunity to visit the Florida State University campus during the Summer. They attend academic courses and take part in cultural enrichment and college exposure activities.

The **Upward Bound Program (UBP)** is a federally-funded program that serves high school students from low socio-economic backgrounds. Located at Gadsden County High School in Gadsden County, Florida, Upward Bound offers developmental opportunities to students through a variety of educational activities, including an on-site computer lab dedicated to UBP participants. UBP staff also assists students in the development of personal and social skills that will help them complete high school and continue their formal education in a post-secondary setting.

Academic Center for Excellence (ACE)

The **Academic Center for Excellence (ACE)** is a University learning center focused on helping undergraduate students develop the study skills and personal success habits that enhance learning and encourage the highest level of academic achievement. ACE provides free peer tutoring, study skills workshops, individual consultations with faculty, preparation for graduate school applications and entrance exams, SLS courses assisting students with study skills and learning strategies, and much more to all undergraduate students and much more.

The ACE Learning Studio, located at *G051 Johnston Ground* in the *William Johnston Building*, offers appointment-based tutoring in a wide variety of subjects including math, biology, chemistry, physics, accounting, economics, and more. Additionally, walk-in math tutoring is available any time the Learning Studio is open. Visit *http://ace.fsu.edu* for more information about academic support for students.

Reading-Writing Center and Digital Studios

Part of the English Department, the Florida State University **Reading-Writing Center (RWC)** offers writing support to all FSU students, including first-year undergraduates, students in all majors, international and other ELL students, CARE students, student athletes, and graduate students across the disciplines. Such support typically takes three forms: (1) tutoring; (2) workshops; and (3) faculty consultations. In the tutoring context, tutors act as practice audiences for students' ideas and writing in genres ranging from term papers to resumes and letters of application, to theses and dissertations. Across these genres, tutors help students develop their writing in many areas, specifically in terms of process, rhetorical awareness, reflective practice, and knowledge transfer. Students can learn about the many RWC locations/hours and/or schedule an appointment by visiting *http://fsu.mywconline.com.*

Also part of the English Department and affiliated with the RWC, the **Digital Studio (DS)** provides support to all FSU students working individually or in groups on a variety of digital projects, such as designing a Web site, developing an electronic portfolio for a class, creating a blog, selecting images for a visual essay, adding voiceover to a presentation, or writing a script for a podcast. The DS has both Macs and PCs and software such as Photoshop, InDesign, Windows Movie Maker, iMovie, and more. Like the RWC, the DS is a place to explore ideas, create and revise digital texts and to learn new technologies to communicate ideas in various media in rhetorically effective ways. Students can learn about the DS locations/hours and/or schedule an appointment by visiting *http://fsu.mywconline.com.* For more information on English Department writing resources, please visit *http://wr.english.fsu.edu/*.

Career Advising and Counseling (CAC)

The **Career Advising and Counseling (CAC)** unit of the Career Center is a theory-based advising unit. Students can take advantage of drop-in career advising services, which include meeting one-on-one with a trained Career Advisor about issues such as choosing a major or occupation, the job and internship searching process, going to graduate school, and many other career-related topics. The Career Advisor guides students and offers access to CAC's many career-related resources including books, files, guides, databases, and Web sites. The Career Center conducts frequent workshops for classes, student groups, and special events, offering a wide variety of topics such as Résumé Writing and Interviewing. Special equipment and materials are available for distance students and students with disabilities. *Dunlap Student Success Center*; *(850) 644-6431*; *http://career.fsu.edu.*

Living-Learning Communities

First year students at Florida State University have an opportunity to participate in one of eight living-learning communities. Each community is directed by an FSU faculty member. Participants live together in University housing and enjoy academic experiences that focus on a theme or major. Information and applications are available through University Housing, *https://housing.fsu.edu/living-learning-communities.* The eight communities are: Bryan Hall Learning Community; Music Living-Learning Community; Nursing Learning Community; Health Professions Learning Community; Social Justice Living-Learning Community; Global and Public Affairs Learning Community; Entrepreneurship and Innovation Learning Community; and Women in Math, Science, and Engineering (WIMSE).

Engage 100

Engage 100 is designed to connect, engage, and challenge students during their first semester at FSU, as well as pave the way to future success in college. While each experience is unique, these are small, mentor-guided group experiences centered on a particular topic or curriculum that will assist students in acclimating to university life.

It is highly encouraged that every incoming student consider participating in Engage 100. Engage 100 will not only assist students with acclimating to college, but it will serve as the springboard for continuous engagement well beyond their first term. In addition to the immediate benefits of participation, we have found that students who participate in these experiences have an increased chance of being admitted to a graduate program or securing a job upon graduation.

What is to gain from participating in an approved experience?

- Join a formal community and form meaningful peer relationships
- Develop personal, social, and professional awareness and skills
- Engage in an activity that aligns with your academic and personal goals
- Learn how to continue to be engaged throughout your college career
- Help make the most of your FSU experience

For more information on Engage 100, please visit *https://engage100.fsu.edu/*.

Freshman Interest Groups (FIGs)

All first-time-in-college students have the opportunity to enroll in a **Freshman Interest Group (FIG)** during their initial Fall term of enrollment. This program is an initiative of the Liberal Studies Coordinating and Policy Committee and was established to enhance the academic engagement of our incoming undergraduates. Each FIG is a pre-packaged cluster of high-demand freshman courses that have been structured to assist students with the initial selection of Liberal Studies courses by grouping courses with a common thread of interest. One of the most significant advantages of the program is the FIG Colloquium, HUM 1920. This course is designed to provide a set of experiences that will introduce students to the academic culture at Florida State University.

Office of National Fellowships

The **Office of National Fellowships (ONF)** assists students in pursuing opportunities for academic and personal enrichment by providing information and support for over sixty nationally competitive fellowships. Using a unique mentoring model, ONF staff challenges students to articulate and communicate their academic and career goals as they work through the fellowship application process. Students are provided a venue for identification and achievement of their academic, public service, creative, and leadership goals. *Honors, Scholars and Fellows House, Suite 3002*; *(850) 644-7596*; *http://onf.fsu.edu*.

Center for Undergraduate Research and Academic Engagement (CRE)

The Center for Undergraduate Research and Academic Engagement (CRE) is committed to helping students become accomplished scholars and active citizens–people of character who can drive innovation and enrich our society. To that end, CRE works with faculty, staff, and students from across campus to support the engagement of FSU undergraduates in high-impact curricular and co-curricular experiences such as research and creative projects, social innovation, and international service learning. We help students take advantage of the resources of a major research university. Some of the programs offered by CRE are:

Undergraduate Research Opportunity Program (UROP): For first-year, second-year, and transfer students interested in a first research experience. UROP students gain research experience as a faculty research assistant for two semesters while participating in a research training colloquium and present at the annual Undergraduate Research Symposium.

Global Scholars: The FSU Global Scholars program helps students secure summer internships at nonprofit organizations in developing countries around the world. Global Scholars' internships are low-cost and high-impact, providing a challenging academic and personal student development experience. FSU students in the program receive training before departure and must complete a capstone research project on an issue facing the overseas community after completing their internship.

IDEA Grants: For students seeking funding for their research, creative endeavor, or other project. Selected applicants will receive a summer stipend of up to $4,000 (or up to $6,000 for groups) to fund their self-designed work on a topic, project, problem, artistic product or performance, or other entrepreneurial or creative idea.

Publication and Presentation: CRE helps students find venues for sharing their research with the community through presentations like the Showcase of Undergraduate Research Excellence, the Fall Research Day, and the annual Undergraduate Research Symposium, or publishing in the FSU Undergraduate Research journal, *The Owl*.

All of these options are available to Florida State University students. *Honors, Scholars and Fellows House, Suite 3002; (850) 645-9630; http://cre.fsu.edu*.

Office of Undergraduate Studies

Associate Dean: Nikki Raimondi

The **Office of Undergraduate Studies** serves as the academic dean's office for all students who have not yet been formally admitted to their majors. The office provides information and services on all academic matters, including exemptions with credit, information on General Education courses, academic standing, dismissal, readmission, remediation, correspondence study, medical/mental health course drops and withdrawals, and enrollment in courses at other colleges and universities. The Office of Undergraduate Studies is located at *A3400 University Center*.

In addition to serving as the academic dean's office for most freshmen and sophomores, the Office of Undergraduate Studies performs two important academic functions:

1. The office evaluates all transfer credit to determine how it applies to Florida State University's General Education requirements and prepares general education evaluations for each undergraduate transfer student who enters without an Associate of Arts (AA) degree from a Florida public post-secondary institution. See the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for details. (Decisions about transfer credit applying toward a major requirement are made in the office of the dean responsible for that major);
2. The office monitors student progress in General Education through the Academic Requirements Report. The Academic Requirements Report will be reviewed with the student at the time of formal declaration of a major for transfer to an upper-division program.

Florida State University grants an AA degree to qualified students upon request. The Office of Undergraduate Studies determines the eligibility of students for the degree. See the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for more information.

Transfer from Undergraduate Studies to Major Advisement Program

Transfer from undergraduate studies to a major's advisement program in any college or school of the University is accomplished between the Office of Undergraduate Studies and the appropriate baccalaureate dean after the student: (1) has declared a choice; (2) has been certified as eligible for transfer; and (3) has been accepted by the appropriate baccalaureate dean.

Eligibility for Transfer to Major Advisement

Students will be considered eligible to transfer from the advisement program of the Office of Undergraduate Studies after satisfying the following requirements:

1. Completion of at least fifty-two semester hours of credit;
2. Successful completion of at least one-half of the required semester hours of the General Education requirements in the *Liberal Studies for the 21st Century* program, including all required General Education courses in Quantitative/Logical Thinking and English Composition (see the "Undergraduate Degree Requirements" chapter of this *General Bulletin*);
3. Achievement of a minimum adjusted grade point average (GPA) of 2.0 or above on work attempted at Florida State University; and
4. Acceptance by a baccalaureate dean for admission to a major's advisement program.

A student who has attempted seventy-five or more semester hours without fulfilling all of the above-listed requirements will not be allowed to register. Such students should consult the Office of Undergraduate Studies and the dean of the college or school in which the degree is to be sought **before** making final decisions on how to meet these requirements.

UNDERGRADUATE ACADEMIC INTEGRITY AND GRIEVANCES

A Summons to Responsible Freedom

Values and Moral Standards at Florida State University

The moral norm that guides conduct and informs policy at Florida State University is responsible freedom. Freedom is an important experience that the University, one of the freest of institutions, provides for all of its citizens: faculty, students, administrators, and staff. Freedom is responsibly exercised when it is directed by ethical standards.

As the Florida public university most deeply rooted in the liberal arts tradition, Florida State University not only focuses on intellectual development, but as a community engaged in moral discourse, it also recognizes the need for the development of the whole person. The University maintains a comprehensive educational program ranging from classroom instruction to research and creative activities at the frontiers of human knowledge. These modes of searching for the truth are mutually enhancing and provide the context for the liberating experiences students gain from contact with ideas and individuals. Education based in the liberal arts provides an opportunity for students to learn to express themselves; to think critically both quantitatively and qualitatively; to gain an understanding of and respect for self and others; to understand the world by knowing more about its history, the role of science and technology, and social and cultural achievements; and to develop specialized talents for a vocation. This opportunity is provided with the conviction, as reflected in the University seal, that through such an educational experience one can come to a clearer understanding of the complex moral issues inherent in human life and can develop the knowledge and skills for effective and responsible participation in the world.

Florida State University shares a commitment to the dignity and worth of each person and is guided in its many endeavors by that underlying value. Through academic activity, community involvement, social interaction, cultural experience, recreational and physical activity, and religious involvement, students find many avenues in the University community for the development of the whole person.

The University shares this society's commitment to the rule of law and expects members of the community to abide by the laws of the city, state, and nation, as well as University rules and regulations.

The University aspires to excellence in its core activities of teaching, learning, research, creative expression, and public service and is committed to the integrity of the academic process. The Academic Honor Code is a specific manifestation of this commitment. Truthfulness in one's claims and representations and honesty in one's activities are essential in life and vocation, and the realization of truthfulness and honesty is an intrinsic part of the educational process.

The University is a place of both assent and dissent and is committed to academic freedom and civil dialogue. In a free and vigorous academic community an ongoing clash of ideas is to be expected and encouraged. The University has a special obligation to see that all have an opportunity to be heard.

Florida State University is committed to nondiscrimination in matters of race, creed, color, sex, religion, national origin, age, disability, veterans' or marital status, sexual orientation, gender identity, gender expression, or any other protected group status. This commitment applies in all areas with students, faculty, and other University personnel. It addresses recruiting, hiring, training, promotions, and applicable employment conditions. It is also relevant to those aspects of the University concerned with the choice of contractors, suppliers of goods and services, and with the use of University facilities. The University believes in equal opportunity practices that conform to both the spirit and the letter of all laws against discrimination.

A responsible student recognizes that freedom means the acknowledgement of responsibility to the following: to justice and public order; to fellow students' rights and interests; to the University, its rules, regulations, and accepted traditions; to parents, teachers, and all others whose support makes one's advanced education possible; to city, state, and national laws; to oneself; and to the opportunity for specialized training and continuing education toward the ends of personal fulfillment and social service. Students are urged to use their freedom in the University community to develop habits of responsibility that lead to the achievement of these personal and social values. Responsible student behavior requires observance of the Student Conduct Code, which is based on respect for the dignity and worth of each person and the requirements for successful community life.

Relations among all persons should be characterized by mutual respect and equality. The University denounces all forms of sexism and racism. Sex discrimination, sexual harassment, and sexual coercion of any sort are wrong and constitute a violation of fundamental moral requirements and state and federal law. Minimally responsible behavior requires that no one take sexual advantage of another.

The cultural, ethnic, and racial diversity of the University community provides an opportunity for learning about those different from oneself. The University believes that each individual deserves to be treated with dignity and respect and accorded the full opportunities of the University, without regard to prejudicial assumptions or attitudes. Discrimination based on race or ethnicity resulting from acts or policies is illegal and incompatible with the concept of responsible freedom as espoused by Florida State University.

The University enforces all laws relevant to alcohol and controlled substances and further strongly discourages the use of illegal substances at any time. The University disseminates and encourages the dissemination by others of information concerning the responsible use of alcohol.

The University is a compassionate community. In its treatment of students, it recognizes the wisdom both of letting students experience the consequences of their actions and of providing the opportunity to learn and grow in ways that can overcome past difficulties. The University provides ongoing student support through the health center, counseling services, and the academic advising process.

The university experience is a time for adventure, fun, excitement, the making of new friends, and the discovery of new possibilities. There are numerous individual and organized opportunities for students to develop and to learn in the course of their university years to exercise newly acquired freedom deliberately and responsibly.

Matriculation to Florida State University, then, is a summons to the exercise of responsible freedom in a community of teaching, learning, and discovery.

Integrity in Research and Creative Activity

It is the policy of Florida State University to uphold the highest standards of integrity in research and creative activity, and to protect the right of its employees to engage in research and creative activity. Detailed policies and procedures can be found in the *Faculty Handbook* under "Section 6: Policies and Procedures."

Academic Honor Policy

Introduction

The statement on 'Values and Moral Standards at FSU' says: "The moral norm which guides conduct and informs policy at Florida State University is responsible freedom. Freedom is an important experience which the University, one of the freest of institutions, provides for all of its citizens – faculty, students, administrators, and staff. Freedom is responsibly exercised when it is directed by ethical standards." (See above 'Values and Moral Standards at FSU' section of this chapter.)

The statement also addresses academic integrity: "The University aspires to excellence in its core activities of teaching, research, creative expression, and public service and is committed to the integrity of the academic process. The [Academic Honor Policy] is a specific manifestation of this commitment. Truthfulness in one's claims and representations and honesty in one's activities are essential in life and vocation, and the realization of truthfulness and honesty is an intrinsic part of the educational process." (See above 'Values and Moral Standards at FSU' section of this chapter.)

Guided by these principles, this Academic Honor Policy outlines the University's expectations for students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty throughout the process. The Academic Honor Policy Committee may take direct jurisdiction of a case under extraordinary circumstances when it is determined by a majority vote of the committee that taking direct jurisdiction is appropriate.

Students in the College of Law and the College of Medicine are governed by the academic integrity policies and procedures of their respective colleges, which are subject to approval by the Academic Honor Policy Committee.

Panama City students who have questions about the academic honor policy can contact the Dean's Office in the Holley Building for assistance.

FSU Academic Honor Pledge

I affirm my commitment to the concept of responsible freedom. I will be honest and truthful and will strive for personal and institutional integrity at Florida State University. I will abide by the Academic Honor Policy at all times.

Academic Honor Violations

Note: Instructors are responsible for reinforcing the importance of the Academic Honor Policy in their courses and for clarifying their expectations regarding collaboration and multiple submissions of academic work. Examples have been provided for the purpose of illustration and are not intended to be all-inclusive.

1. **Plagiarism.** Presenting the work of another as one's own (i.e., without proper acknowledgement of the source). Typical examples include: Using another's work from print, web, or other sources without acknowledging the source; quoting from a source without citation; using facts, figures, graphs, charts or information without acknowledgement of the source; or utilizing ghostwriting or pay-for-paper services.
2. **Cheating.** Improper access to or use of any information or material that is not specifically condoned by the instructor for use in the academic exercise. Typical examples include: Copying from another student's paper or receiving unauthorized assistance during a quiz, test, or examination; using books, notes, or other devices (e.g., calculators, cell phones, or computers) when these are not authorized; procuring without authorization a copy of or information about an examination before the scheduled exercise; or unauthorized collaboration on exams.
3. **Unauthorized Group Work.** Unauthorized collaborating with others. Typical examples include: Working with another person or persons on any activity that is intended to be individual work, where such collaboration has not been specifically authorized by the instructor.
4. **Fabrication, Falsification, and Misrepresentation.** Unauthorized altering or inventing of any information or citation that is used in assessing academic work. Typical examples include: Inventing or counterfeiting data or information; falsely citing the source of information; altering the record of or reporting false information about practicum or clinical experiences; altering grade reports or other academic records; submitting a false excuse for absence or tardiness in a scheduled academic exercise; or lying to an instructor to increase a grade.
5. **Multiple Submissions.** Submitting the same academic work (including oral presentations) for credit more than once without instructor permission. It is each instructor's responsibility to make expectations regarding incorporation of existing academic work into new assignments clear to the student in writing by the time assignments are given. Typical examples include: Submitting the same paper for credit in two courses without instructor permission; or making minor revisions in a credited paper or report (including oral presentations) and submitting it again as if it were new work.
6. **Abuse of Academic Materials.** Intentionally damaging, destroying, stealing, or making inaccessible library or other academic resource material. Typical examples include: Stealing or destroying library or reference materials needed for common academic purposes; hiding resource materials so others may not use them; destroying computer programs or files needed in academic work; stealing, altering, or intentionally damaging another student's notes or laboratory experiments. This refers only to abuse as related to an academic issue.
7. **Complicity in Academic Dishonesty.** Intentionally helping another to commit an act of academic dishonesty. Typical examples include: Knowingly allowing another to copy from one's paper during an examination or test; distributing test questions or substantive information about the material to be tested before a scheduled exercise; or deliberately furnishing false information.
8. **Attempting to commit any offense as outlined above.**

Student Rights

Students have the following important due process rights, which may have an impact on the appellate process:

- to be informed of all alleged violation(s), receive the complaint in writing (except in a Step 1 agreement, described in the Procedures Section, where the signed agreement serves as notice), and be given access to all relevant materials pertaining to the case.
- to receive an impartial hearing in a timely manner where they will be given a full opportunity to present information pertaining to the case.

Students are also accorded the following prerogatives:

- when possible, to discuss the allegations with the instructor.
- privacy, confidentiality, and personal security.
- to be assisted by an advisor who may accompany the student throughout the process but may not speak on the student's behalf.
- to choose not to answer any question that might be incriminating.
- to contest the sanctions of a first-level agreement and to appeal both the decision and sanctions of an Academic Honor Hearing.

The student has the right to continue in the course in question during the entire process. Once a student has received notice that he/she is being charged with an alleged violation of the Academic Honor Policy, or when a student has been found responsible for an Academic Honor Policy violation, the student is not permitted to withdraw or drop the course. Should no final determination be made before the end of the term, the grade of "Incomplete" will be assigned until a decision is made.

Students in Tallahassee should contact the Dean of Students Department for further information regarding their rights. Students based in Panama City should contact the Student Affairs office in the Barron Building or the Dean's Office in the Holley Building.

Procedures for Resolving Cases

Step 1.

Throughout the Step 1 process, the instructor has the responsibility to address academic honor allegations in a timely manner, and the student has the responsibility to respond to those allegations in a timely manner. For assistance with the Academic Honor Policy, students should consult the Dean of Students Department and instructors should consult the Office of the Vice President for Faculty Development and Advancement. Panama City students and instructors should contact the Dean's office in the Holley Building for assistance.

If a student observes a violation of the Academic Honor Policy, he or she should report the incident to the instructor of the course. When an instructor believes that a student has violated the Academic Honor Policy in one of the instructor's classes, the instructor must first contact the Office of Vice President for Faculty Development and Advancement to discover whether the student has a prior record of academic dishonesty in order to determine whether to proceed with a Step 1 agreement (for Panama City-based instructors, the Dean's office in Panama City campus will also assist). The instructor must also inform the department chair or dean. (Teaching assistants must seek guidance from their supervising faculty member and adjunct instructors must seek guidance from their department chair.) However, faculty members or others who do not have administrative authority for enforcing the Academic Honor Policy should not be informed of the allegation, unless they have established a legitimate need to know. If pursuing a Step 1 agreement is determined to be possible, the instructor shall discuss the evidence of academic dishonesty with the student and explore the possibility of a Step 1 agreement (refer to *http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy*). Four possible outcomes of this discussion may occur:

1. If the charge appears unsubstantiated, the instructor will drop the charge, and no record of academic dishonesty will be created. The instructor should make this decision using the "preponderance of the evidence" standard.
2. The student may accept responsibility for the violation and accept the academic sanction proposed by the instructor. In this case, any agreement involving an academic penalty must be put in writing and signed by both parties on the "*Academic Honor Policy Step 1 Agreement*" form (refer to *http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy*) which must then be sent to the Dean of Students Department. This agreement becomes a confidential student record of academic dishonesty and will be removed from the student's file five years from the date of the final decision in the case. Any grade imposed as the result of an academic sanction will remain on the student's transcript indefinitely and will not be subject to course drop or withdrawal.
3. The student may accept the responsibility for the violation but contest the proposed academic sanction. In this circumstance, the student must submit the "*Academic Honor Policy Referral to Contest Sanction*" form (refer to *http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy*) along with supporting documentation to the Office of the Vice President for Faculty Development and Advancement. The student's written statement must demonstrate specific reasons why the proposed sanction is extraordinarily disproportionate to the offense committed for any change to occur in the sanction. The Vice President for Faculty Development and Advancement (or designee) will review the submitted

documentation to determine whether the proposed sanction should be imposed. The Vice President (or designee) may affirm or modify the sanction as appropriate. The decision that results from this review is final.

4. The student may deny responsibility. In this circumstance, the instructor submits the "*Academic Honor Policy Hearing Referral*" form (refer to *http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy*) along with supporting documentation to the Office of the Vice President for Faculty Development and Advancement for an Academic Honor Policy Hearing. The student is issued a letter detailing the charges within ten class days of the receipt of the referral, and the schedule for the hearing will be set as soon as possible and within ninety days from the date of the letter. These timelines may be modified in unusual circumstances. Unless all parties agree, the hearing will not be held any sooner than seven class days from the student's receipt of the charge letter. The process then proceeds to Step 2.

If the student is found to have a prior record of academic dishonesty or the serious nature of the allegations merits a formal hearing, the instructor must refer the matter to Step 2 for an Academic Honor Policy Hearing by submitting the "*Academic Honor Policy Hearing Referral*" form (refer to *http://fda.fsu.edu/academic-resources/academic-integrity-and-grievances/academic-honor-policy*) and appropriate documentation to the Vice President for Faculty Development and Advancement.

Allegations of academic dishonesty involving a graduate student engaged in any phase of the preliminary or comprehensive examination, thesis, or dissertation will be treated as egregious and will be resolved through the Step 2 process, in which the major professor will serve as the "instructor" under the hearing procedures. The Vice President for Faculty Development and Advancement and the student's academic dean, (as well as the Vice President for Research in cases involving grant-funded research), should be informed as soon as possible of all such allegations. The decision regarding whether to submit a hearing referral will be made by a committee consisting of the department chair and two faculty members appointed by the academic dean, one of whom should be the student's committee member serving as the University representative (if one has been identified), excluding the major professor. In rendering its decision, this committee should review all available information and consult with the major professor and the academic dean.

Step 2.

Academic Honor Policy Hearing.

A panel consisting of five members shall hear the case. The panel shall include: one faculty member appointed by the dean from the unit in which the academic work is conducted; one faculty member appointed by the Vice President for Faculty Development and Advancement who is not from that unit; and two students appointed through procedures established by the Dean of Students Department. The panel shall be chaired by the Vice President for Faculty Development and Advancement (or designee), who votes only in case of a tie.

The hearing will be conducted in a non-adversarial manner with a clear focus on finding the facts within the academic context of the academic work. The student is presumed innocent going into the proceeding. After hearing all available and relevant information from the student and the instructor, the panel determines whether or not to find the student responsible for the alleged violation using the "preponderance of the evidence" standard. If the student is found responsible for the violation, the panel is informed about any prior record of academic honor policy violations and determines an academic sanction (and disciplinary sanction, if appropriate). In some cases, a Step 1 sanction may have been appropriately proposed prior to the convening of an Academic Honor Hearing. If the student is found responsible in these cases, the panel typically will impose a sanction no more severe than that which was proposed by the faculty member. The panel is required to provide a clear written justification for imposing a sanction more severe than the sanction proposed in Step 1.

The chair of the Academic Honor Policy hearing panel will report the decision to the student, the instructor, the academic unit, the supervising faculty member or a teaching assistant or an adjunct instructor, the student's dean, the Dean of Students Department, and the Registrar, if appropriate. If the student is found responsible, this outcome will be recorded with the Dean of Students Department and becomes a confidential student record of an Academic Honor Policy violation. Records in which suspension or a less severe sanction (including all academic sanctions) is imposed will be removed five years from the date of the final decision in the case. Any grade imposed as the result of an academic sanction will remain on the student's transcript indefinitely and will not be subject to course drop or withdrawal. Records involving dismissal and expulsion will be retained permanently, except in cases where a dismissed student is readmitted. Those records will be removed five years from the date of the student's readmission.

Sanctions

Step 1.

This Step 1 procedure is implemented with first-offense allegations that do not involve egregious violations. The decision regarding whether an allegation is egregious is made by the Vice President for Faculty Development and Advancement (or designee) and the instructor. The instructor should consider the seriousness of the violation, the student's circumstances, potential opportunities for learning and consistency with past sanction in determining a proposed sanction. The following sanctions are available in the Step 1 procedure.

1. **Additional academic work, including re-doing the assignment**
2. **A reduced grade (including "0" or "F") for the assignment**
3. **A reduced grade (including "F") for the course**

Step 2.

An Academic Honor Policy Hearing is held for all second offenses, for all first offenses that involve egregious violations of the Academic Honor Policy, for all offenses that involve simultaneous violations of the Student Conduct Code, and in all cases where the student denies responsibility for the alleged violation. The decision regarding whether an allegation is egregious is made by the Vice President for Faculty Development and Advancement (or designee) and the instructor. In some cases, a Step 1 sanction may have been appropriately proposed prior to the convening of an Academic Honor Policy Hearing. If the student is found responsible in these cases, the panel typically will impose a sanction no more severe than that which was proposed by the faculty member. The panel is required to provide a clear written justification for imposing a sanction more severe than the sanction proposed in Step 1. Students will not be penalized solely for exercising their right to request a Step 2 hearing. The following sanctions are available in Step 2 (see the Procedures section) and may be imposed singly or in combination:

1. **Additional academic work, including re-doing the assignment**
2. **A reduced grade (including "0" or "F") for the assignment**
3. **A reduced grade (including "F") for the course**
4. **Educational Activities**—attendance at educational programs, development of an academic plan with the assistance of the Academic Center for Excellence, participation in an Ethics Workshop, tutoring regarding proper citation practices, meetings with appropriate faculty or administrators, writing essays, or other educational activities. Fees may be charged to cover the cost of educational activities.
5. **Restitution, letter of apology, or other restorative act**
6. **Disciplinary Probation**—a period of time during which any further violation of the Academic Honor Policy puts the student's status with the University in jeopardy. If the student is found responsible for another violation during the period of Disciplinary Probation, serious consideration will be given to imposing a sanction of Suspension, Dismissal, or Expulsion. Restrictions that may be placed on the student's activities during this time period include, but are not limited to: participating in student activities; representing the University on athletic teams or in other leadership positions; and participating In practice for athletic or other competitions.
7. **Suspension**—Separation from the University for a specified period, not to exceed two years.
8. **Dismissal**—Separation from the University for an indefinite period of time. Dismissal is considered a final sanction, but readmission is possible in some cases under documented exceptional circumstances. No consideration will be given to readmitting a dismissed student within the first three years after a dismissal is imposed. Dismissal is noted on the student's transcript.
9. **Expulsion**—Separation from the University without the possibility of readmission. Expulsion is noted on the student's transcript.
10. **Withholding of diplomas, transcripts, or other records for a specified period of time.**
11. **Suspension of degree, in cases where an offense is discovered after the degree is posted.**
12. **Revocation of degree, in cases where an offense is discovered after the degree is posted.**

Appeals

Decisions of the Academic Honor Policy Hearing Panel may be appealed to the Academic Honor Policy Appeal Committee, a standing four-member

committee composed of two faculty appointed by the President and two students appointed by the Vice President for Student Affairs. The chair will be appointed annually by the President, and members will serve two-year renewable terms. In case of a tie vote regarding a case, the committee will submit a written report to the Provost, who will then make the final determination.

On appeal, the burden of proof shifts to the student to prove that an error has occurred. The only recognized grounds for appeal are:

1. Due process errors involving violations of a student's rights that substantially affected the outcome of the initial hearing.
2. Demonstrated prejudice against the charged student by any panel member. Such prejudice must be evidenced by a conflict of interest, bias, pressure, or influence that precluded a fair and impartial hearing.
3. New information that was not available at the time of the original hearing.
4. A sanction that is extraordinarily disproportionate to the offense committed.
5. The preponderance of the evidence presented at the hearing does not support a finding of responsible. Appeals based on this consideration will be limited to a review of the record of the initial hearing, and the student will not be invited to appear before the Appeal Committee.

The procedures followed during the appeals process are:

6. The student should file a written letter of appeal to the Office of the Vice President for Faculty Development and Advancement within ten class days after being notified of the Academic Honor Policy Hearing Panel decision. This letter should outline the grounds for the appeal (see 1–5 above) and should provide supporting facts and relevant documentation.
7. The Academic Honor Policy Appeal Committee will review this letter of appeal and will hear the student and any witnesses called by the student, except in appeals based on consideration #5 above. The committee may also gather any additional information it deems necessary to make a determination in the case. The instructor is not typically involved in the appellate process.
8. The Appeals Committee may affirm, modify, or reverse the initial panel decision, or it may order a new hearing to be held. This decision becomes final agency action when it is approved by the Provost. In cases where the student is found responsible, the decision becomes a confidential student record of academic dishonesty.
9. Appellate decisions are communicated in writing to the student, the instructor, the instructor's academic unit, the supervising faculty member or a teaching assistant or an adjunct instructor, the Office of the Vice President for Faculty Development and Advancement, the student's academic dean, the Dean of Students Department and the Registrar, if necessary, within thirty class days of the appellate hearing.

Academic Honor Policy Committee

An Academic Honor Policy Committee shall be appointed by the University President. The Committee will include: three faculty members, selected from a list of six names provided by the Faculty Senate Steering Committee and three students, selected from a list of six names provided by the Student Senate. The Vice President for Faculty Development and Advancement or designee and the Dean of Students or designee shall serve *ex officio*. Faculty members will serve three-year staggered terms, and students will serve one-year terms. The committee will meet at least once a semester. It will monitor the operation and effectiveness of the Academic Honor Policy, work with the Faculty Senate and the Student Senate to educate all members of the community regarding academic integrity, and make recommendations for changes to the policy.

Amendment Procedures

Amendments to the Academic Honor Policy may be initiated by the Academic Honor Policy Committee, the Faculty Senate, the Student Senate, and/or the Vice President for Academic Affairs. Amendments to the policy must be approved by both the Faculty Senate and the Student Senate.

Grievance Procedure

Students who allege that academic regulations and procedures have been improperly applied in specific instances may have their grievances addressed through the general academic appeals process. In this process, the student brings a complaint first to the instructor, then to the department chair, and finally to the academic dean appropriate to the course involved, stopping at the level at which the complaint is resolved. If no resolution is reached, the student brings the complaint to the attention of the Vice President for Faculty Development and Advancement for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. A graduate student whose complaint is unresolved must see the Dean of the Graduate School prior to meeting with the Vice President for Faculty Development and Advancement. The Student Academic Relations Committee has the authority to direct, through the Vice President for Academic Affairs, that corrective action be taken when justified.

Grievance Procedure: Panama City Campus

Students who allege that academic regulations and procedures have been improperly applied in specific instances may have their grievances addressed through the general academic appeals process. In this process, the student brings a complaint first to the instructor, then to the Panama City Associate Dean (or department chair if applicable to the course), and then to the Panama City Dean (or College Dean if applicable to the course), stopping at the level at which the complaint is resolved. If no resolution is reached, the student brings the complaint to the attention of the Vice President for Faculty Development and Advancement for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. A graduate student whose complaint is unresolved must see the Dean of the Graduate School prior to meeting with the Vice President for Faculty Development and Advancement. The Student Academic Relations Committee has the authority to direct, through the Vice President for Academic Affairs, that corrective action be taken when justified.

Grievance Procedure: Panama, Republic of Panama Campus

Students who allege that academic regulations and procedures have been improperly applied in specific instances may have their grievances addressed through the general academic appeals process. In this process, the student brings a complaint first to the instructor, then to the FSU Panama Vice Rector for Academic Affairs. If the complaint is not resolved at this stage, then the Vice Rector for Academic Affairs forwards the complaint to the Academic Standards Committee, which then must make a recommendation to the FSU Panama Rector. If no resolution is reached at the Republic of Panama campus, then the student will go to the department chair, and finally to the academic dean appropriate to the course involved, stopping at the level at which the complaint is resolved. If no resolution is reached, the student brings the complaint to the attention of the Vice President for Faculty Development and Advancement for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. A graduate student whose complaint is unresolved must see the Dean of the Graduate School prior to meeting with the Vice President for Faculty Development and Advancement. The Student Academic Relations Committee has the authority to direct, through the Vice President for Academic Affairs, that corrective action be taken when justified.

Student Academic Relations Committee (SARC) of the Faculty Senate

The Faculty Senate Committee on Student Academic Relations hears appeals from students concerning decisions about their academic work which they have evidence to show to have been arrived at improperly or unprofessionally in departments, schools, or colleges. The committee comprises five faculty members (appointed annually by the Faculty Senate steering committee with the advice and consent of the Senate for staggered two-year terms) and two students, one undergraduate and one graduate (appointed annually by the University President). The committee elects its chair annually from among the faculty representatives and reports its findings and recommendations to the Vice President for Academic Affairs. Students wishing to make appeals to the committee on student academic relations should consult the Office of Faculty Development and Advancement. Appeals to this committee are made after all other available remedies have been exhausted.

University Student Ombudsperson

The Office of the University Ombudsperson provides students of the University community an avenue for confidential exploration of decisions regarding academic issues. Once all other appropriate mechanisms have been exhausted, students may present their case to the University Ombudsperson. The ombudsperson is a neutral facilitator and will assist students with any academic problem or grievance that may arise during their interaction with the University. While he/she may be an instrument for change, the ombudsperson does not resolve issues by any direct use of authority or power, but rather requests a reexamination of the problem.

Grade Appeals System

The purpose of the grade appeals system is to afford an opportunity for an undergraduate or graduate student to appeal a final course grade under certain

circumstances. Faculty judgment of students' academic performance is inherent in the grading process and hence should not be overturned except when the student can show that the grade awarded represents a gross violation of the instructor's own specified evaluation (grading) statement and therefore was awarded in an arbitrary, capricious, or discriminatory manner. The evaluation (grading) statement utilized during the grade appeals process is the one contained in the instructor's syllabus at the beginning of the semester. This system does not apply to preliminary or comprehensive exams or to thesis or dissertation defenses; these issues are reviewed by the Faculty Senate Student Academic Relations Committee via the Office of Faculty Development and Advancement.

Step 1.

Within 15 class days (defined throughout the Grade Appeals System as Mondays through Fridays during regular fall, spring, and summer semesters, as noted in the FSU Academic Calendar maintained by the University Registrar. Class days are not dependent on whether an individual student has class on a particular day) following the date that final grades are made available to students, the student must contact the instructor in question to discuss the grade and attempt to resolve any differences. The student should document any attempts to contact the instructor in order to establish that the appeal was begun within this 15-class-day period. In the event that the instructor is not available, the student should provide that documentation to the instructor's program or department chair. It is expected that the student will first attempt to resolve the grade dispute with the instructor; however, either the student or the instructor may consult with the appropriate department chair, school director, or designee during this process.

Step 2.

If no resolution is reached within this 15-class-day period, after the student's documented attempt, the student has an additional 10 class days to submit a written statement to the department chair, school director, or designee. This statement must include an account of attempts to resolve the issue, as well as the evidence that forms the basis for the appeal.

Within 20 class days thereafter, the department chair, school director, or designee will set a date for a meeting of a grade appeals screening committee composed of three students enrolled in the academic unit offering the course to review the appeal. These students should be either undergraduate or graduate students, depending on the enrollment status of the student challenging the grade. The meeting should occur within that 20-class-day period, if practicable. Appropriate students who have no conflict of interest will be chosen to serve on this screening committee by a student organization associated with the program or department, if such an organization exists. If none exists or if members of such an organization are not available, the department chair, school director, or designee will select appropriate students who have no conflict of interest. Both the student and the instructor may attend the meeting, as may the department chair, school director, or designee.

The role of the screening committee is solely to determine whether the student has presented sufficient evidence to warrant further review. Within five class days after this meeting, the screening committee will render its decision in writing (indicating that they recommend/do not recommend further review) to the department chair, school director, or designee, the student, and the instructor. A negative decision will end the appeal. A positive decision will trigger the next step in the process.

Step 3.

Within 15 class days of a positive decision from the grade appeals screening committee, the department chair, school director, or designee will appoint and arrange for a meeting of a grade appeals board. The meeting should occur within that 15-class-day period, if practicable. The board is composed of three faculty members and two students other than those who served on the screening committee. These students should be either undergraduate or graduate students, depending on the enrollment status of the student challenging the grade.

The purpose of this board is to determine whether or not to uphold the final grade assigned by the instructor. The board will consider only the evidence provided by the student and the instructor in making the determination. The student, the instructor, and the department chair, school director, or designee may attend the meeting.

The grade will be upheld unless the evidence shows that the grade was awarded in an arbitrary, capricious, or discriminatory manner, as a result of a gross violation of the instructor's own evaluation (grading) statement. If the original grade is not upheld, the board will recommend that an alternative grade be assigned by the department chair, school director, or designee.

If the student has evidence that this grade appeals process has deviated substantially from these established procedures, resulting in a biased decision, the student may consult with the Office of Faculty Development and Advancement regarding referral to the Faculty Senate Student Academic Relations Committee.

Note: For additional information regarding general grading practices and approvals, please refer to the 'Grading Practices' section in the "Academic Regulations" chapter of this *General Bulletin*.

Religious Holy Days

Per Section 1006.53, Florida Statutes, the Florida State University policy on observance of religious work-restricted holy days provides that students shall, upon notifying their instructor within the first two weeks of the semester, be excused from class to observe a religious work-restricted holy day of their faith. While students will be held responsible for the material covered in their absence, each student shall be permitted a reasonable amount of time to make up the work missed. Instructors and University administrators shall in no way arbitrarily penalize students who are absent from academic or social activities because of religious work-restricted holy day observance. Instructors will find the calendar developed by the University of Missouri (*https://diversity.missouri.edu/guide-to-religions/dates-practices-accomodations/*) a useful resource as they respond to student requests for absence. Students who allege that this policy has been improperly applied in specific instances may have their grievances addressed through the general academic appeals process. In this process, the student brings a complaint first to the instructor, then to the department chair, and finally to the academic dean appropriate to the course involved, stopping at the level at which the complaint is resolved. If no resolution is reached, the student brings the complaint to the attention of the Vice President for Faculty Development and Advancement for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. This committee has the authority to recommend to the Vice President for Academic Affairs that corrective action be taken when justified. Consult the 'Grievance Procedure' section of this chapter for a complete description.

UNDERGRADUATE ACADEMIC REGULATIONS AND PROCEDURES

Required First Day Attendance Policy

University-wide policy requires all students to attend the first class meeting of all classes for which they are registered. Students who do not attend the first class meeting of a course for which they are registered will be dropped from the course by the academic department that offers the course. This policy applies to all levels of courses and to all campuses and study centers. **It remains the student's responsibility to verify course drops and check that fees are adjusted.** Please refer to 'Class Attendance' below for additional information. **Note:** Students who have received some or all of their financial aid prior to the end of drop/add for a term may be subject to repayment of financial aid if there is a change in their financial aid eligibility. Examples of this may include, but are not limited to, reduction of course load below required levels, cancellation of schedule, failure to meet satisfactory academic progress requirements, and other conditions required to maintain financial aid eligibility.

Class Attendance

All students are expected to abide by the class attendance policy set forth by the instructor in each class in accordance with the *Faculty Handbook*. When possible, students also must provide advance notice of absences, as well as relevant documentation regarding absences, to the instructor as soon as possible following the illness or event that led to the absence. Any arrangement to make up work because of class absence is the responsibility of the student. The instructor, who will explain the evaluation (grading) statement at the beginning of the term, determines the effect of absences upon grades.

Students must attend the section of the course for which they are registered. No instructor has the authority to permit a student to shift from one section of the course to another without following official drop/add procedures. No student may drop a course after the seventh week of classes without the permission of his or her academic dean.

Until a student is officially enrolled in a course, they are not permitted to attend class, submit assignments, or take tests. Exceptions are limited to students auditing the course or making up work for a prior incomplete grade in the course. Students who are not officially registered for a course or do not appear on the course roster after the end of the second week of the semester should be referred to the appropriate office for approval to continue attending class. That may be the Office of Financial Aid, Student Business Services, the Office of the University Registrar, the Office of Admissions, etc. Students may contact the Office of the University Registrar if they are unsure of which office they need to contact for documentation.

University Health Services will issue "Provider Visit Verifications" to students if requested. Such verification may include, at the discretion of the medical provider (Physician, PA, APRN, LCSW, or Physical Therapist), recommendations about bed rest, restricted activity, and follow-ups. Students who need notes for class excuses will be unable to obtain them from University Health Services if they have not been seen by a provider at UHS. Ultimately, the authority for deciding whether the student is excused for medical reasons rests with the instructor.

Students who are members of an intercollegiate team are required to attend all scheduled class meeting times or scheduled online activities associated with the course delivery. Absences due to illness, personal/family emergencies, or injury must be documented. Failure to adhere to the attendance policy may result in sanctions up to and including suspension from the athlete's sport for the remainder of the season. Student-athletes must remain eligible to enroll in order to maintain eligibility for all intercollegiate competition. Arranging to make up work missed because of legitimate class absence is the responsibility of the student.

Within the University there are several categories of students that are expected to exhibit behavior that conforms to the group to which they belong. These units include, but are not limited to: ROTC cadets, academic honor societies, veterans, athletes, medicine, and nursing majors. Membership within these units implies that the student agrees to fulfill the obligations of the organization.

Military Short-Term Absence or Call to Active Duty

Policies pertaining to accommodations for short-term absence of call to active duty, please see the Student Veteran Information chapter in this Bulletin.

Academic Career, Academic Level and Classification of Students

The University classifies students based on whether or not they are degree-seeking. Degree-seeking students are further classified based on the type and level of degree they are pursuing. This classification is the academic career of the student. The University recognizes six academic careers, four degree-seeking and two non-degree-seeking. Although rare, a student may be active in more than one career at a time, subject to the academic policies and requirements of each career and the degree requirements.

Degree-seeking careers:

- **Undergraduate:** students pursuing baccalaureate degree of any type
- **Graduate:** students pursuing master's, specialist, or doctorate degree of all types except the juris master, master of law letters, juris doctorate, or doctor of medicine degrees
- **Law:** students pursuing the juris doctorate (JD) degree, juris master (JM), or master of law letters (LLM)
- **Medicine:** students pursuing the doctor of medicine (MD) degree

Non-degree-seeking careers:

- **Non-Degree, without Baccalaureate:** students without a baccalaureate degree
- **Non-Degree, with Baccalaureate (post-baccalaureate):** students who have previously earned, at a minimum, one baccalaureate degree or higher-level degree

Depending on the career of the student, the University may record the advancement of the student toward completion of the degree by tracking the academic level of the student. The academic level of undergraduate students is calculated on the basis of semester hours. Students with a career of Law or Medicine are classified based on their year within the program. Graduate students and various non-degree students do not have specific academic levels or classification.

- **First Year Student:** zero through twenty-nine semester hours;
- **Sophomore:** thirty semester hours;
- **Junior:** sixty semester hours;
- **Senior:** ninety semester hours;
- **Post-Baccalaureate:** previously earned bachelor's degree;
- **Graduate:** admitted to a graduate program;
- **Law (JD degree):** first through third year;
- **Medicine (MD degree):** first through fourth year;
- **Non-Degree Seeking without Baccalaureate Degree;**
- **Non-Degree Seeking with Baccalaureate Degree;**
- **Transient;** and
- **High School Students.**

Student Catalog Year

The matriculation catalog (i.e., the *General Bulletin*) governs each student's graduation requirements–this catalog remains in effect for six years for the bachelor's degree unless the student elects to meet the requirement of any subsequent *General Bulletin* published during the period of enrollment.

Non-Degree Seeking Student Regulations

Academic rules governing regular students (e.g., fees, drop/add, withdrawal, grading policies) also apply to non-degree seeking students with the following exceptions:

1. Non-degree seeking students may enroll for fewer than twelve semester hours (underload) without permission.
2. In place of the retention schedule for regular students, non-degree seeking students **without** a baccalaureate degree must meet the following requirements: after attempting fifteen semester hours, non-degree seeking students must have achieved and must maintain a 2.0 ("C") average in all courses attempted.
3. In place of the retention schedule for regular students, non-degree seeking students **with** a baccalaureate degree must meet the following requirements: non-degree seeking with baccalaureate students must maintain a 3.0 ("B") average in all courses attempted.

4. Failure to achieve or maintain the appropriate grade point average (GPA) will result in a loss of registration privileges and dismissal from the University.
5. Non-degree seeking students may register for any course or courses on an S/U basis. Non-degree seeking students selecting courses for enrichment or other reasons where grades are not essential are advised to register on an S/U basis or on an audit basis.

Consult the "Academic Regulations and Procedures" chapter of the *Graduate Bulletin* for policies relating to non-degree student status at the graduate level.

The Office of the University Registrar serves as the academic dean for all non-degree students.

Registration of Non-Degree Seeking Students

All non-degree-seeking undergraduate students may register for up to 18 credit hours; enrollment beyond this limit may be subject to approval by the Registrar. All registration by non-degree seeking students is on a space-available basis. Because of excessive demand for some undergraduate and graduate courses, non-degree seeking students may be enrolled in such courses only with the permission of the particular unit.

Reclassification from Non-Degree Seeking Student to Regular (Degree–Seeking) Status

Non-degree seeking students wishing to change to degree-seeking-student status must apply for admission through the Office of Admissions. Refer to the "Admissions" chapter of this *General Bulletin* for admission procedures and deadline dates.

Work taken as a non-degree seeking student carries no degree credit. Up to fifteen semester hours earned as a non-degree seeking student, except where noted below, may be applied toward an undergraduate degree, with approval of the appropriate dean at the time of formal admission as a degree-seeking student or later.

Note: Students who enrolled in Florida State University as high school dual enrollment students, while classified as non-degree students, are not subject to the 15-hour credit limitation that is established for non-degree students. Instead, they may count up the maximum hours of allowed high school dual enrollment.

Course Loads

Florida State University regards fourteen to fifteen semester hours as a normal full-time load, and a student will not be considered full-time with fewer than twelve semester hours. Students should take into account the requirement to take nine semester hours of credit in the Summer. A student who maintains a twelve semester hour (below normal) load will not graduate in four academic years unless a total of twenty-four semester hours are taken during Summer sessions.

A course load of more than eighteen semester hours or less than twelve semester credit hours must be approved by the academic dean, and in no case may a student register for or receive credit for more than twenty-one semester hours. A student on academic probation must enroll for no fewer than twelve and no more than fifteen letter-graded semester hours. Non-degree seeking students are not required to obtain an underload permit.

International undergraduate students must enroll in at least twelve semester hours during each of the Fall and Spring semesters to maintain legal immigration status. An international student advisor may authorize a reduced course load in certain circumstances. Students who wish to enroll in a reduced course load for a given semester must submit a request for authorization to an advisor at the Center for Global Engagement before the end of the drop/add period for that semester. An unauthorized reduction in course load may result in serious immigration consequences. For a complete definition of the full course of study for immigration purposes and to access the reduced course load information and request forms, please refer to *http://cge.fsu.edu/*.

See the *Graduate Bulletin* for policies regarding course loads for graduate students.

Directed Individual Study Courses

Students may enroll in courses directed by an instructor for individual study of a particular area. Individual academic departments or programs determine directed individual study policies for students taking directed individual study courses in that department or program. The directed individual study course title must be approved in writing by the instructor offering the course and the departmental chair, or representative, and is posted on the student's record.

Office of the University Registrar

University Registrar: Kimberly A. Barber; **Senior Associate Registrar:** Aimee Leturmy; **Associate Registrars:** Katie Cloud, Jeremy Johnson

Location: *A3900 University Center*; phone: *(850) 644-1050*; e-mail: *registrar@fsu.edu*; Web: *http://registrar.fsu.edu/*

The Office of the University Registrar is the official custodian of permanent academic records of all past and currently enrolled students at Florida State University. It is responsible for assisting departments and students with registration activities; maintaining student and departmental records for the term in progress; posting FSU credit, transfer credit, and grade changes; preparing FSU transcripts; scheduling academic space; maintaining and updating curricula; certifying eligibility to receive credit for Credit by Examination; certifying attendance for loan purposes; implementing and monitoring academic regulations; certifying eligibility to graduate; and providing services and information to students, faculty, and administration. Reports and certifications of attendance and grade point average are made to governmental agencies, such as the Veterans' Administration, with the student's permission.

Students should consult this office with questions concerning registration, locations and meeting times of courses, errors in registration records, dropping and adding courses, cancellation of registration, grade problems, application for graduation, and degree or enrollment verification.

All changes in permanent and local addresses, name, social security number, and residency should be made online or reported to this office immediately.

Persons with Disabilities. Any student in need of specific services and reasonable accommodations should contact the *Student Disability Resource Center, 108 Student Services Building, (850) 644-9566*, or visit *https://dos.fsu.edu/sdrc/*.

Registrar Cancellation of Schedule

Students allowed to register in error are cancelled by the Office of the University Registrar.

Students who are dropped or deleted from their last or only course by an academic department because of nonattendance on the first day of class are cancelled by the Office of the University Registrar. This cancellation is without liability for tuition. **Undergraduate and non-degree seeking students whose registration is cancelled by the University Registrar must apply for readmission if they have not been enrolled for three consecutive terms**. For the purpose of this policy the cancellation term is considered a term of non-enrollment.

Note: Students who have received some or all of their financial aid prior to the end of drop/add for a term, may be subject to repayment of financial aid if there is a change in their financial aid eligibility. Examples of this may include, but are not limited to, reduction of course load below required levels, cancellation of schedule, failure to meet satisfactory academic progress requirements, and other conditions required to maintain financial aid eligibility.

Cancellation of Student Schedules for Non-Payment of Tuition and Fees

In accordance with Florida State University Regulation 5.081 *Tuition, Fees, Payment*, students who do not pay tuition and fees or make arrangements to pay tuition and fees by the end of the established fee payment deadline may have their schedules cancelled and academic progress discontinued for the semester. Student's whose schedules have been cancelled may not attend class or receive grades. Students will be notified using their FSU e-mail account concerning outstanding tuition delinquencies and given an opportunity to pay tuition and fees or make arrangements for tuition and fee payment with the Office of Student Business Services prior to cancellation. For more information, please reference *http://regulations.fsu.edu/content/download/21865/140868/file/Chapter5code.revised.11.2014-linked.pdf*.

Reinstatement of Student Schedules Cancelled for Non-Payment of Tuition and Fees

Students whose schedules are cancelled for non-payment of tuition and fees may submit a written appeal to the University Registrar for reinstatement and continuation of academic progress for the term. A written appeal must be submitted to the University Registrar no later than the end of the seventh week of classes as identified in the University Academic Calendar (consult the *Registration Guide* for term deadlines). Prior to a student's appeal being approved, the Office of Student Business Services must verify that payment for the current term has been received or that appropriate arrangements have been made for tuition and fee payment. Students whose schedules are reinstated are subject to a $100.00 late registration fee and a $100.00 late payment fee. Check or credit card payments that are returned or refused will negate

any tuition payment agreement for the reinstatement of a student's schedule. The University reserves the right to deny reinstatement when a demonstrated pattern of tuition delinquencies over two or more semesters has occurred.

Note: The appeal must be submitted by the seventh week deadline for the term that was cancelled. Appeals received during the next term, for a prior term's cancellation, will be deemed to have missed the deadline and may not be considered.

Student Cancellation of Schedule

A student may cancel registration during the first four days of classes for a semester or Summer session by dropping all classes via their online student portal or submitting a written request to the Office of the University Registrar, *A3900 University Center,* or Withdrawal Services, *A4300 University Center*. Notification may also be sent from the student's official e-mail account to Office of the University Registrar at *registrar@fsu.edu*. Beyond the fourth day of classes, a student cannot voluntarily cancel registration but must apply for withdrawal from the University. Students who cancel their registration during the official drop/add period are not fee liable for tuition; if tuition has been paid, such students should request a full refund of fees. **Undergraduate and non-degree seeking students who cancel their registration and are not enrolled for the following two terms (non-enrollment for three consecutive terms) must apply for readmission**. Students who must drop all classes after the official drop/add period should contact Withdrawal Services, *A4300 University Center*.

International students who wish to cancel their registration or withdraw from the term must request and receive prior authorization from a Center for Global Engagement advisor.

Note: Students who have received some or all of their financial aid prior to the end of drop/add for a term, may be subject to repayment of financial aid if there is a change in their financial aid eligibility. Examples of this may include, but are not limited to, reduction of course load below required levels, cancellation of schedule, failure to meet satisfactory academic progress requirements, and other conditions required to maintain financial aid eligibility.

Cancellation of Student Health Insurance

Cancellation of a student's full class schedule does not trigger the termination of the insurance policy or the premium. The student must contact the Health Compliance Office of University Health Services via e-mail at *healthcompliance@fsu.edu* to advise of the cancellation of schedule and request termination of the insurance. If the student has attended the first thirty-one calendar days of classes for the term for which coverage was purchased, the student has met the eligibility requirement to retain the coverage through the termination date and the cost of the insurance premium must be paid.

Students leaving the University to enter the military may receive a prorated premium refund. The student must contact the Health Compliance Office of University Health Services via e-mail at *healthcompliance@fsu.edu*.

Drop/Add or Changes of Schedule

During the first four days of classes, individual courses may be added, dropped, or sections of a course changed. Students are financially liable for all courses appearing on their schedule after the fourth day of classes. To add courses after the first four days of classes may require the academic dean's approval. Courses dropped during this period do not appear on the student's transcript. Individual courses may be dropped through the seventh week of classes with the exception of mandated college preparatory courses, freshman composition, and courses involved in allegations of academic dishonesty; however, tuition charges remain. Approval by the student's academic dean is required to reduce the academic load below twelve semester hours or increase an academic load above eighteen semester hours (to a maximum of twenty-one semester hours). Dean's approval for an overload or underload must be submitted to the Office of the University Registrar.

A cumulative maximum of two courses may be dropped **between the eighth and twelfth week** of classes during the semesters in which the student has earned fewer than sixty hours of college credit; tuition charges will remain. A student may only drop one course after earning sixty hours of college credit and until graduation; tuition charges remain. In addition to courses involved in allegations of academic dishonesty, other courses may be designated by the dean as not subject to this "late drop" provision. Courses dropped during this period appear on the student's transcript with the notation "W." See the "Academic Calendar" in the *Registration Guide* for the semester specific deadlines.

Except in cases where a student is petitioning to use one of the three drops allowed under the policy above, any course drop petition after the seventh week of classes (with dates prorated for individual Summer sessions), will be considered only in documented exceptional circumstances that are beyond the student's control, as determined by the student's academic dean. Course drops approved by the academic deans appear on the student's transcript with the notation "WD." Academic deans exercise their administrative and academic judgment in making final determinations about drop eligibility. Course drops are never approved when there are unresolved allegations of academic dishonesty in a course or when a course grade reflects an Academic Honor Policy penalty.

Students who register for courses but who do not attend the classes receive a grade of "F" if the courses are not officially dropped. Students changing from a previous bulletin year should consult their academic dean regarding limitations concerning the policy described above.

Note: Students who have a bachelor's degree and return for a second bachelor's degree may petition for a late drop within the same semester timelines as noted above.

Auditor Seating Privileges

All regularly enrolled students and persons not enrolled in the University are afforded seating privileges after registration on a space-available basis with permission of the instructor, approval of the Office of the University Registrar, payment of the prescribed fee for each course, and presentation of the appropriate form approved by the Office of the University Registrar. Since no credit is allowed for attendance via "seating privilege," formal admission to the University is not required, however minimal demographical data must be provided as part of the approval and enrollment process. The course(s) taken will not appear on the student's permanent record. Note: The Office of the University Registrar serves as the academic dean for all non-degree students, including those individuals enrolling in courses on an audit basis.

Students are cautioned not to preregister for any course they intend to audit. They will have to drop the course(s) from their official schedule and will incur additional financial liability.

Note: Citizens 60 years of age or older who are Florida residents may attend classes under "seating privileges" criteria, and fees are waived except for those courses requiring individual instruction. All individuals auditing courses may register for up to 18 credit hours; enrollment beyond this limit in a single semester is not permitted.

Transcripts

The Office of the University Registrar issues official transcripts at the request of the student. Individuals needing official transcripts are encouraged to submit their request online at *http://my.fsu.edu* under the "Academics" section of Student Central. In cases where a student is unable to submit an online request, a written request may be made directly to the transcript section of the Office of the University Registrar.

Transcript service may be denied if a financial or judicial stop has been placed on a student's record. Clearance from the Controller's Office or the Office of Student Rights and Responsibilities must be obtained prior to the release of the transcript. Transcript service may also be denied if the request is made by a third party without the student's written consent.

A charge of $10.00 will be assessed for each official transcript issued.

The University reserves the right to issue transcripts to other state of Florida schools for those students who attend the University under the state transient process. Students are responsible for any transcript fees incurred for providing these transcripts as required by the transient application process.

Unofficial transcripts are available to students free of charge. Visit *http://my.fsu.edu*, click ***Course Quicklinks*** and select ***View Unofficial Transcript***.

Proof of Enrollment

All student enrollment verifications will be by official request only. Students in need of enrollment verification should submit an electronic request by logging into *http://my.fsu.edu*. Select **Enrollment Verification**. Follow the instructions to obtain your enrollment verification letter. Your letter will be processed the following business day. Written requests may be submitted directly to:

Office of the University Registrar
Florida State University
A3900 University Center
282 Champions Way
P.O. Box 3062480
Tallahassee, FL 32306-2480.

Former students or outside agencies may request an enrollment verification or degree verification online from the National Student Clearinghouse at *https://nscverifications.org/welcome-to-verification-services/*.

Access to Records

Students have the right to have access to their student records on file in the Office of the University Registrar. Students requesting access to information in their file, or a third party requesting information in a student's file **with the written consent of the student**, have the right to a response from the Office of the University Registrar within thirty days. When the record includes information on more than one student, only the information pertaining to the student making the request will be given.

Parental or Third Party Access to Records

Students may give a designated parent(s), or other third parties (i.e. sibling, spouse, etc.), authority to review their University financial status, grades, transcript, student profile, etc. by logging onto *http://my.fsu.edu* and selecting the ***Share My Information*** link. Granting access to a parent or third party to view information in this manner also authorizes University personnel to discuss those records with the designated parent or third party.

Registration

During each academic term, an official registration window is established for all currently enrolled, degree-seeking students who expect to enroll for the following term. Students registering for their first term do so during their orientation.

Registration at Florida State University is online. To register online, go to *http://my.fsu.edu* and choose "Enroll in Classes". Using the Web site, students can register for all of their courses and can gain access to information concerning their tuition and fees. **Please note that by registering, students accept both fee and grade liability.**

Registration Guide and Course Schedules

Florida State University publishes the *Registration Guide.* The *Registration Guide* contains a list of all registration deadlines, fee and payment information, and important announcements specific to the semester. This information is published online at *http://registrar.fsu.edu*.

Lists of course offerings, meeting times, locations, and instructors (when known) are available online through the **Class Search**. This system is available twenty-four hours a day, year-round. The Class Search is only available for newly admitted and current students through the myFSU portal (*http://my.fsu.edu*). Prospective students and all others may access a PDF listing of courses available on the University Registrar Web site through the "Snapshot of Class Search as a PDF (refreshed weekly)" link (*http://registrar.fsu.edu*).

Students are advised to organize their materials and plan their schedule before attempting to register online. Course listings for an upcoming semester will be available fourteen days prior to the first enrollment appointment for that semester. Students must contact the appropriate departmental office for any clearances or authorization needed. Individual instructors should be contacted for courses requiring instructor permission. It is important to take care of any academic or administrative hold (stop) before attempting to register.

Registration Responsibility

Undergraduate Studies students and first-time transfer students must see their academic advisors for assistance with their course selection prior to registration. New students may be required to register for preparatory mathematics and/or English composition courses to complete registration.

Students are responsible for meeting prerequisites and co-requisites for each course in which they are enrolled. Students who do not meet course prerequisites or co-requisites may be dropped by the academic department. Any changes a student makes to his/her schedule without the advisement of an academic advisor are the responsibility of the student.

Students may attend and receive credit only for those courses in which they are properly registered. Likewise, students will be held responsible for every course for which they register unless they officially drop the course or cancel registration.

Those students who register during late registration (normally the first four days of classes) will be assessed a $100.00 late registration fee.

Course/Credit Modification

Course credit may be modified downward with the approval of the chair of the department that is offering the course and the appropriate academic dean. No course may be modified upward. Any student wishing to modify credit may obtain the necessary forms in the Office of the University Registrar.

Required Preparatory Courses

First-year students who have a score on the SAT or ACT that falls within the ranges below will be required to enroll in supplementary instruction for English Composition, Reading, and/or Mathematics during their first term of enrollment (unless they pass an on-campus skills test). Students must earn a satisfactory grade in their preparatory coursework to move on to taking General Education courses in these areas without supplemental support.

Test	Scores	Placement
Old SAT Writing (2005–2016) New SAT Writing and Language (2016–) ACT English	0–470 10–27 0–18	ENC 1905
Old SAT Critical Reading (2005–2016) New SAT Reading (2016–) ACT Reading	0–430 10–24 0–18	REA 1905
Old SAT Mathematics (2005–2016) New SAT Mathematics (2016–) ACT Mathematics	0–460 10–25 0–20	MAT 1033 or MGF 1106/1107 with support lab

Stops to Registration

Registration is prevented if all academic and/or administrative requirements have not been fulfilled prior to the term. A stop may be placed on the student record if one or all of the following deficiencies exist: academic dismissal, incomplete admissions documents, fiscal deficiency, or failure to process readmission papers after a withdrawal or after a three-term absence (including the Summer term) from the University (undergraduate and non-degree seeking students). Also, failure to meet specific requirements of a University college, school, or department, or the Office of Student Rights and Responsibilities may result in a stop in registration activities or in the release of transcripts and diplomas.

A stop is placed on all students who have outstanding charges due to the University. Students owing any fees are not permitted to register for classes. The stop is not removed and such students are not permitted to register until the debt is cleared.

Students notified of a stop should contact the notifying office immediately and arrange for removal to be allowed to register for classes, receive official transcripts, and/or receive a diploma.

If students with a stop on their records are allowed to register in error, they are considered illegally enrolled in the University. If the stop is not removed after notification of such an error, the student's registration is subject to cancellation.

Permission for Undergraduate Students to Register for Graduate Courses

A student of senior standing or an upper-division honors student may carry graduate courses for undergraduate credit provided the student: (1) has earned either a grade point average (GPA) of 3.0, "B," or better; (2) carries a course load of no more than fifteen semester hours; and (3) has the advance approval of the college dean, the department chair, and the instructor offering the course. Prior to registration, students will be required to present the college and/or departmental approval to the Office of the University Registrar. Staff in the Registrar's Office will complete the registration process for the student.

Students who wish to receive graduate credit for such coursework must obtain approval of the college dean, the department chair, and the instructor offering the course prior to registration for the graduate course. After approval, up to twelve semester hours may be counted toward a graduate degree at Florida State University, provided the course has not been counted toward a previous degree. Undergraduate students who have been approved to participate in the combined bachelor's/master's pathways may work with their academic advisors to designate up to twelve credit hours as "shared" hours. "Shared hours" may count toward the undergraduate degree and the approved master's degree. Students must coordinate with an academic advisor to have their records updated to reflect approval to participate in a combined degree pathway.

Florida Agricultural and Mechanical University–Florida State University Interinstitutional Registration

A full-time student at one institution may enroll in one or more courses at the other institution under the following conditions:

1. Permission is to be given by the academic dean of the student's home university.
2. Courses taken at the host university should be those normally not offered at the student's home university.

3. Students taking courses at the host university on a satisfactory/unsatisfactory (S/U) basis will be held to the home institution policies regarding the total number of courses allowed on S/U basis or in a specific degree or major. Students are encouraged to consult their academic advisor about any limitations prior to registration.
4. The final grade obtained by the student shall be reported directly to the student's home university for entering on the student's transcript. Grades, credits, and quality points are treated as home-institution work.
5. All tuition and fees are paid to the home institution.
6. Students must maintain a minimum 2.0 cumulative Florida State University GPA to be eligible to participate in the co-op program. Prior to attempting twelve hours, students who fail to maintain the 2.0 GPA may consider themselves on probation, although no entry will be placed on their transcript, and they may continue to enroll, assuming all other conditions of eligibility are met. After attempting twelve hours, students must meet and maintain the minimum 2.0 cumulative GPA to continue enrolling through the program.
7. To register, see the FAMU–FSU Cooperative Program representative in the Office of the University Registrar. For engineering requirements, see the "FAMU–FSU College of Engineering" chapter of this *General Bulletin*.
8. Before students can register for classes, they must provide proof of immunizations. Immunization compliance requirements are listed at *http://uhs.fsu.edu*. If the immunization document being submitted is the FAMU immunization form, two copies of the form are required.

Note: Faculty and full-time students at either institution have equal access to the library facilities at both institutions.

Interinstitutional Transient Students

This program enables students to take advantage of special resources and/or programs not available at their home institution. An interinstitutional transient student, by mutual agreement of the appropriate academic authorities in both the sponsoring and hosting institution, will receive a waiver of admission requirements of the host institution and a guarantee of acceptance of earned resident credits by the sponsoring institution except in the case of international credits. An official course-by-course evaluation is required for all academic records from non-U.S. institutions. We recommend the evaluation be done by a member of the National Association of Credential Evaluation Services (*http://naces.org*).

Interinstitutional transient students must be recommended by their own academic dean, who will initiate a visiting arrangement with the appropriate dean at the host institution. Students will register at the host institution, paying tuition and/or registration fees established by that institution. The approval of one institution does not bind the other to comply.

Students from other institutions who wish to take courses at Florida State University should submit an approved Interinstitutional Transient Student application to the Office of Admissions by the published deadline. (Consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines.) Students may complete the transient form online at *https://www.floridashines.org/*.

Note: Academic rules governing regular students (e.g., fees, drop/add, withdrawal, grading policies) also apply to transient students. Transient students attending Florida State University are, by definition, classified as non-degree seeking students.

Undergraduate Final Examinations

The scheduling of a final examination or a test in lieu of a final exam at any time other than the regularly scheduled final examination period (*http://registrar.fsu.edu/registration_guide*) is prohibited by University policy. Unless an exam is given during the final examination period, no test may be given during the last week of classes.

Classes meeting every day at the same hour and classes meeting for more than one time period will hold final examinations according to the time and day of the first scheduled class meeting of the week. For example, a class meeting for the first period on Tuesday and for the first and second period on Thursday will hold its final examination at the exam time scheduled for the first period on the Tuesday/Thursday class listing.

Exceptions to the Examination Policy for an Individual Undergraduate Student. Approval by the academic dean of the school or college in which the class is taught is required for an individual undergraduate student seeking an exception to the final examination policy. The student must first receive written permission from the instructor if the instructor is willing to give a rescheduled final exam at a specified time within the final exam week. The student must then petition the dean, giving the reason for the requested exception, and supported by the instructor's written permission. The dean will then notify the instructor in writing if approval is granted.

Rescheduled final examinations are permitted for an undergraduate student when justified by illness, official documented accommodations on record with the Student Disability Resource Center, conflicting final examinations, three or more final examinations within a twenty-four-hour period, or certain emergencies. Arrangements should be made prior to the scheduled final exam. If a student missed the scheduled final examination and does not have approval in advance for a rescheduled final exam within the final exam week, it is up to the instructor to decide if a make-up final examination will be allowed. No special dean's office permission is required.

In case of conflicting final examinations, block examinations take precedence over examinations scheduled by class meeting time and higher-enrollment classes take precedence over lower-enrollment classes. In the case of conflicts that cannot otherwise be resolved, the class meeting earlier by day and time takes precedence over a class meeting later.

Note: The possibility of a conflict between final exam times exists, particularly for classes that meet in the evening or only once each week. It is the student's responsibility to identify if a conflict exists and immediately make special arrangements with the instructor to take the final exam at an alternate time during the University's official final exam period. Make-up final exams may be scheduled at any time during final exam week, between Monday at 7 a.m. and Friday at 5 p.m.

Exceptions to the Examination Policy for an Undergraduate Class Utilizing the Assessment Center. Classes that utilize the University Assessment Center for a block exam, or which are otherwise limited to specific days and times because of seating and scheduling constraints, will take precedence in the case of final exam schedule conflicts. It is the student's responsibility to identify such conflicts as early as possible and to notify all instructors in advance so that accommodations may be made.

Exceptions to the Examination Policy for an Undergraduate Class. No instructor of an undergraduate class may give a final examination at a time other than that which appears online at *http://registrar.fsu.edu/registration_guide*, unless they are utilizing the University Assessment Center. Instructors who do not utilize the assessment center and need to deviate from the published final exam schedule must obtain prior approval from the Undergraduate Policy Committee. Such approval must be requested, in writing, at least three weeks prior to the scheduled final exam. To reschedule a final examination without such approval places the instructor in jeopardy of administrative reprimand by his or her dean and the Vice President for Academic Affairs.

Undergraduate Distance Learning Exams. If the instructor of an online class requires a final exam, the instructor shall have the prerogative to set the window during which a final exam is administered, provided that the window is within the University's official final exam period. A final exam window must be disclosed in the class syllabus. Rescheduled final examinations are permitted for an undergraduate student when justified by illness, official documented accommodations on record with the Student Disability Resource Center, conflicting final examinations, three or more final examinations in a twenty-four-hour period, or certain emergencies. It is the student's responsibility to identify if a conflict exists and immediately make arrangements with the instructor to take the final exam at an alternate time during the University's official final exam period. If a student has such conflicts, the final exams of the student's non-online classes shall have priority and the time of the online exam will be the first exam subject to adjustment. If such agreement cannot be achieved between the student and the instructor, then the academic deans of the units housing the various classes will consult to achieve agreement.

This explanation is intended only to clarify the existing University final exam policy for online classes and all provisions of the University final exam policy that do not conflict with what is stated above remain in effect.

Grading System

Definition	Grade	Quality Points Per Credit Hour
Excellent Law	A+	4.25
Excellent	A	4.00
	A–	3.75
Good	B+	3.25
	B	3.00
	B–	2.75
Average	C+	2.25
	C	2.00
	C–	1.75
Poor	D+	1.25
	D	1.00
	D–	0.75
Failure	F	0.00
Honors Medicine	HM	4.00
Pass Medicine	PM	3.00
Administrative Failure Law	AF	N/A
Administrative Disenrollment Law	AD	N/A
Pass	P	N/A
Satisfactory	S	N/A
Unsatisfactory	U	N/A
Incomplete	I	N/A
Incomplete Expired	IE	0.00
No Grade Received from Instructor	NG	N/A
No Grade Expired	GE	0.00
Withdrawn while Passing	W	N/A
Withdrawn with Dean's Permission	WD	N/A
Examination Credit	EC	N/A
Departmental Examination	ED	N/A

Grade Point Average

Florida State University reports three types of grade point averages (GPAs) on the transcript, 1) term (or FSU Cumulative) GPA; 2) transfer credit; 3) combined overall. Quality points are assigned for each semester hour as listed above. In computation of the required grade point average for retention and conferral of a degree, the total number of quality points is divided by the total number of semester hours for which letter grades are received. A student will not be allowed additional credit in subsequent attempts unless the course is specifically designated as repeatable to allow additional credit. Repeatable courses may be taken to a maximum number of times or hours as spelled out in the course description. Course enrollment beyond these limits may not be counted towards the student's credit hours. Should a student enroll in a non-repeatable course, the quality points associated with the subsequent enrollment will be calculated into the FSU cumulative GPA.

All regulations tied to a specific grade average should be interpreted to mean the numerical average associated with that specific grade. Hence, the required "'C' average or better" on all General Education courses is interpreted as "2.0 average or better."

Students may repeat courses in which they received a grade of "D" or "F." Both the original and repeat grades will be used in the computation of GPA but credit for only one attempt will apply toward graduation.

A student will not be allowed additional credit for a course repeated in which the student originally made a "C–" or better unless the course is specifically designated as repeatable to allow additional credit. Repeatable courses may be taken to a maximum number of times or hours as spelled out in the course description. Course enrollment beyond these limits may not count toward the student's earned hours. Should a student enroll again in a non-repeatable course the quality points associated with the subsequent enrollment will be calculated into the FSU cumulative GPA.

Dean's List

Undergraduate students who are registered for at least twelve semester hours of letter-grade (A–F) courses are eligible for the dean's list. The required grade point average is 3.5, in all colleges, for any given term.

President's List

Undergraduate students who are registered for at least twelve semester hours of letter grade (A–F) courses are eligible for the president's list. The required grade point average is 4.0, in all colleges, for any given term.

Satisfactory/Unsatisfactory Grading

A. Undergraduate Courses Approved on a Letter-Grade Basis

To encourage liberal arts education and focus on learning, the University permits limited enrollment in elective courses outside the major, minor, and Liberal Studies areas on a satisfactory/unsatisfactory basis. Except for students in their first term at FSU, at least a 2.5 grade point average is required. S/U permit forms must be obtained and eligibility certified by the Office of the University Registrar no later than the end of the seventh week of classes. No undergraduate courses in the College of Business are offered under this option.

With the exception of courses in the College of Business, a course outside a student's major, minor, and Liberal Studies areas normally approved for letter grades may be elected on the S/U basis and, if completed with an "S" grade, will count toward the minimum semester hours credit required for graduation and upper-division distribution but will not be included in the grade point average. The course grade will be recorded officially as satisfactory ("S") or unsatisfactory ("U"). Registration on an S/U basis is limited to one elective course per term (exclusive of physical education activity courses) and to a maximum total of eighteen semester hours. (See exceptions under section B below.)

In addition to the one elective course, a student may elect to take concurrently a physical education course to be graded on the S/U basis by obtaining proper approvals prior to registration.

Students will be allowed seven weeks to decide whether or not they want to take a course on a satisfactory/unsatisfactory basis. They may change to S/U from a letter grade at any time before the end of the seventh week of the term. Courses initially elected on the S/U basis may be changed back to a letter-grade basis prior to the end of the seventh week of the term or the equivalent prorated Summer deadline.

Approval forms are available at *http://registrar.fsu.edu/forms/*.

B. Courses Approved on an S/U Basis

Certain other courses that are approved for S/U grades exclusively (practicum, internship, laboratory, student teaching, individual work, research) may be applied toward the major or minor. There is no student letter-grade option for courses approved on the S/U basis; all students must be graded on an S/U basis. The credits earned in these courses are excluded from the total stipulated in section A (above) as permissible. Also, enrollment in a course offered on the S/U basis only does not exclude enrollment in an elective course under the S/U option (in section A above) in the same term.

C. Graduate Students

Policies and procedures for satisfactory/unsatisfactory grades for graduate students are explained in the *Graduate Bulletin*.

Incomplete Grade Policy

Incomplete ("I") grades should be recorded only in exceptional cases when a student, who has completed a substantial portion of the course and who is otherwise passing, is unable to complete a well-defined portion of a course for reasons beyond the student's control. Students in these circumstances must petition the instructor and should be prepared to present documentation that substantiates their case. Incomplete grades should not be granted in order to allow students to do extra coursework in an effort to increase their grade.

Even under these circumstances, the authority for determining whether to grant an incomplete rests solely with the instructor. A graduate teaching assistant must have approval from a supervising faculty member to grant an incomplete. One exception to this guideline occurs when an incomplete is applied as a result of allegations of academic dishonesty that have not been resolved by the end of a semester. Deans' offices can often provide guidance to instructors regarding the appropriateness of an incomplete grade in individual cases.

In order to assign an incomplete, an instructor is required to indicate on the grade roster the time frame for resolution of the grade and the default grade to be assigned if the student does not complete the remaining academic work. Some departments also require that an incomplete grade be documented with an "Incomplete Grade Agreement." It is the student's responsibility to complete the remaining academic work within the agreed-upon time frame.

Under University policy, an incomplete grade automatically reverts to the predetermined default grade at the end of the semester that has been specified by the faculty member as the time frame for resolution, unless one of two conditions is met:

1. Upon completion of the agreed-upon work, the instructor submits a grade-change form that replaces the "I" with the final grade for the course;
2. The instructor submits a separate "Incomplete Extension of Time" form to the Evaluation and Posting Section of Admissions and Records before the end of the semester in which the "I" is set to expire.

In cases where no default grade or instructor-determined expiration semester exists, incomplete grades will expire to an IE (Incomplete Expired) at the end of the next term of enrollment unless the instructor submits a grade change form prior to the official grade posting deadline. No grade changes will be made to default grades or unresolved "I" grades after the degree has been granted. Thus, it is critical that an instructor work closely with the student and department staff regarding the clearance of an incomplete grade.

Grading Practices

At the end of each term, student's grades are made available at *my.fsu.edu*.

Once a final grade in a course has been reported by the instructor to the Office of the University Registrar, it cannot be changed by the instructor except in cases of error in recording with permission of the department chair and the dean of the college, or as a result of a final determination from a formal grade appeal.

The University will not automatically expire "I" grades earned prior to Fall 2010 or "NG" grades earned for any semester. Students must work with faculty and academic deans to resolve any outstanding "I" or "NG" grades prior to graduation. Outstanding "I" or "NG" grades that are not resolved prior to the degree posting will not be changed except in cases of error in recording. Faculty and academic deans reserve the right to expire an "I" or "NG grade to "IE" or "GE" respectively. These grades are considered final grades and will calculate as an "F" in the student's overall GPA. In cases where the "I" or "NG" grade was earned in a course approved for numeric grades or "S/U", the grade will expire to the lowest possible value, generally a 60 or "U". Grades of "I" are not assigned to any courses if a student withdraws from the University. A grade of "I" or "NG" in a course that is approved for "S/U" or numeric grades will follow the same grading and expiration policy.

Grades earned at another institution cannot be used to improve a grade point average or eliminate a quality point deficiency at Florida State University.

Grade Changes to Courses Completed Prior to Posted Degree

Once a degree has been awarded, all coursework leading to that degree is considered final and not subject to change. Grade changes or withdrawals for coursework that applies to the awarded degree may be considered only in cases of documented University error or in cases where the courses in question are documented as applying to a degree that is still in progress. Courses that are designated as "shared" between degree programs, such as those used in combined or joint degree pathways may not be changed unless both degrees are still in progress. See the "Combined Bachelor's/Mater's Pathway, Direct Entry Pathways" section in the Undergraduate Degree Requirements chapter of the *General Bulletin*.

Forgiveness Policy

Effective Fall 2004, Florida State University discontinued the forgiveness policy for all students. Please refer to the 'Drop /Add or Changes of Schedule' section in this chapter for additional information.

Academic Standing and Retention

Note: Effective Fall 2020, the following academic standing and retention standards will apply to all current, transfer, or returning undergraduate students.

All students must demonstrate satisfactory academic progress for retention and continued enrollment at Florida State University. Satisfactory academic progress includes, but is not limited to, successful completion of credit hours and progression toward completing a degree. The University reserves the right not to retain students who do not demonstrate satisfactory academic progress.

A minimum Florida State University (FSU) cumulative grade point average (GPA) of 2.0 ("C") or better is required for graduation. Students should maintain at least this minimum at all times to be in good standing. There are five academic status categories at FSU: 1) Good Standing; 2) Academic Probation; 3) Academic Probation Continued; 4) Dismissed and 5) Dismissed, Reinstated on Academic Probation. Statuses of "Academic Probation," "Academic Probation Continued", or "Dismissed, Reinstated on Academic Probation" do not specifically prohibit a student from participating in extracurricular activities unless otherwise specified by University policy, rules, or by-laws governing the activity or organization.

Probation

Any time a student's FSU cumulative GPA falls below 2.0, the student will have a designation of "Academic Probation" placed on their transcript and the student will be placed on academic probation for their next term of enrollment at FSU. A student who has been placed on academic probation must enroll for not less than twelve and not more than fifteen letter-graded semester hours in their next term of enrollment after being placed on academic probation.

If the student fails to remove the probationary status by the end of the probationary term, the student's academic standing will be reassessed. Students who do not return to good academic standing after a semester on academic probation and who earn a term GPA of less than 2.5 will be dismissed from the university. Students on academic probation who do not return to good academic standing but who earn a term GPA of 2.5 or higher at FSU will have their academic standing reflected as "Academic Probation Continued". A student may be on "Academic Probation Continued" for a maximum of two consecutive terms. Students who have not returned to good academic standing after two consecutive semesters of "Academic Probation Continued" status will be dismissed.

Students who earn less than 2.0 FSU cumulative GPA in their first semester at FSU or who must repeat a required college-level preparatory course will be required to enroll in SLS 1122, Strategies for Academic Success, or SLS 3140, Academic Success Strategies for Transfer Students. These are one credit-hour graded courses designed to help students develop the needed study skills to return to good academic standing. Students will be administratively enrolled in one of these courses during the following semester and are responsible for all tuition, fees, and textbook/supplies.

Students on academic probation who elect to enroll in a Florida public postsecondary institution (or in a regionally accredited institution within or outside the state) and who receive an academic Associate of Arts degree with an overall 2.0 average will have the probationary status and their previous Florida State University average excluded upon application for readmission, and will be guaranteed a maximum of sixty semester hours, with approval of the academic dean.

Dismissal and Reinstatement

Academic dismissal constitutes a separation of the student from the University for academic reasons. The dismissed student **must** consult his or her academic dean at the time of dismissal about criteria governing possible reinstatement to the University. Students are not eligible for reinstatement after two academic dismissals. Students dismissed because of low grade point averages (GPA) may be reinstated only with approval of the academic dean. Close consultation with the academic dean is required in order to determine if any of the following options are appropriate for a given student and his or her situation:

1. Achieving the required minimum FSU GPA through online courses taken in the Flexible Learning Program offered by the State of Florida, Division of Colleges and Universities. Students must meet with their academic dean for approval to take courses in the Flexible Learning Program (correspondence coursework) and to determine the minimum GPA that must be earned in the course(s) to be eligible for reinstatement. Courses taken for this purpose will not earn credit toward the total degree hours. *Students taking correspondence coursework are ineligible for financial aid*. Grades earned in courses taken through the Flexible Learning Program will be applied to the student's FSU GPA;
2. Attending and graduating with an academic Associate of Arts (AA) degree from a Florida public postsecondary institution (or a regionally accredited institution within or outside the state) with an overall GPA of 2.0 or higher, with approval of the academic dean. The student's FSU GPA will be reset to 0.00 upon readmission after earning an AA degree. In addition, the student earning an AA degree from a Florida public institution is guaranteed sixty semester hours when granted the GPA reset. Returning to FSU with an AA degree will not guarantee readmission to a limited access major or a major where prerequisite coursework has not been met;

Under documented extraordinary circumstances and when the GPA deficit is minimal, being immediately reinstated on academic probation by the academic dean (Under this option, if the student fails to achieve the required GPA to good academic standing (2.0 FSU cumulative GPA) during the first term of reenrollment, the student will again be dismissed.

1. Consideration of the academic dismissal takes priority over any readmission application and must be resolved first. Students on dismissal are not eligible for readmission or the readmission appeals process unless they have first been reinstated by the academic dean. The academic dean is the final authority for reinstatement consideration when the student is not subject to the multiple withdrawal or dismissal

policy. In cases where a student has multiple dismissals or withdrawals, the University Withdrawal/Reinstatement Committee will review the student's request for readmission and render a decision in consultation with the academic dean. Reinstatement by the academic dean does not constitute automatic readmission. Students who have been out of the University for more than three consecutive semesters (including summer) must go through the readmission process and meet University requirements and standards.

2. All students who enter Florida State University for the first time are assured retention for their second term. Students may, however, be placed on academic probation at the end of the first enrolled term.

Students pursuing multiple degrees under different careers (i.e., graduate and undergraduate simultaneously) are subject to the retention standards of the career associated with each degree. Dismissal from one career does not automatically constitute dismissal from the second career when those careers are different (i.e., undergraduate and graduate, or Law and graduate).

Graduate students should refer to the "Academic Regulations and Procedures" chapter of the *Graduate Bulletin*.

Continuous Enrollment

Continuous enrollment at Florida State University is defined as enrollment without an interruption of three or more consecutive semesters (including Summer term). Credits earned at other institutions during any semester while not registered at Florida State University will not constitute continuous enrollment at the University. Undergraduates and both types of non-degree seeking students, excluding transient and high school dual enrollment, who are not enrolled at the University for three or more consecutive semesters (or consecutive semester and Summer term) must apply for readmission before resuming their studies. For graduate definitions of continuous enrollment, please see the "Academic Regulations and Procedures" section of the *Graduate Bulletin*.

For example, a student who enrolls in Fall may choose to not enroll in subsequent Spring and Summer terms and return to take class in the following Fall semester without having to go through readmission. However, should this student choose to remain out of school for the Spring, Summer, and Fall semesters, readmission will be required prior to being allowed to enroll in any additional terms.

Any break in continuous enrollment requiring readmission or reinstatement may cause the student to be subject to legislative Excess Credit policies and fees. For more information on Excess Credit fees, refer to the "Financial Information" chapter of the *General Bulletin*.

Readmission

Please refer to the "Admissions" chapter in this *General Bulletin* for readmission policies for returning students who have not been dismissed.

Withdrawal from the University

All students who wish to leave the University during a term must formally withdraw from any classes that remain on their schedule after the end of the drop/add period. Dropping all classes does not constitute formal withdrawal. Students who do not attend classes and fail to withdraw will be assigned grades of "F" for each course.

Withdrawal requests are not automatically approved, but must be requested. Withdrawals are initiated in the withdrawal services section of the Dean of Students department in the University Center. The statement "Withdrew from the University" will appear on the transcripts of students who properly withdraw. Under documented exceptional circumstances (beyond the student's control), as determined by the appropriate academic dean, a student withdrawing from the University may receive "WD" grades in all courses taken that term. Students who petition for a withdrawal under medical or mental health reasons will have a transcript notation of "WD" grades for all courses taken that term.

Note: Withdrawals requested after the 7th week of the term (see academic calendar of the specific term for dates) are grade liable and will appear on the transcript for all courses. Students are encouraged to discuss their individual circumstances with their academic dean.

Students who cancel their enrollment during the first four days of classes for a term are not held liable for tuition and registration fees. Those who have paid are eligible for a full refund. Students who withdraw after the first four days of classes, but prior to the end of the fourth week of classes are eligible for a twenty-five percent refund of tuition and registration fees, less the building and capital improvement fees; this deadline is adjusted for shorter Summer terms. Students who withdraw after this deadline are fully liable for fees and are not eligible for a refund, except as provided in policies set forth by the State Board of Education and Florida State University. Students who receive Title IV funds and who decide to cancel their schedule during the first four days of classes or who withdraw from the University may be required to repay some or all of the funds received. For further information on refunds, see the 'Refunds of Fees' section in the "Financial Information" chapter of this *General Bulletin*.

A student wishing to reenter the University in any of the following three semesters after withdrawal must have the approval of their academic dean on the 'Application for Withdrawal and Reentry' form. Degree-seeking students wishing to reenter the University after three semesters (including summer) must submit an application for readmission to the Office of Admissions; non-degree seeking students must complete the original application process. Formal application must be made to the Office of Admissions by the published deadline. Students who left the University on dismissal must resolve the dismissal and be reinstated by the academic dean before any decision can be made on the readmission application. (Consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines.)

International students who wish to withdraw **must** request and receive prior authorization from a Center for Global Engagement advisor. Student-athletes who wish to withdraw must receive prior authorization from Student-Athlete Academic Support.

Students who are withdrawing and who have purchased the student health insurance through the University should contact the Health Compliance Office at University Health Services for information about their health insurance and whether they are eligible to cancel coverage.

University Withdrawal/Reinstatement Committee and Deadlines for Requesting and Processing Withdrawals

Students petitioning for a withdrawal are expected to submit their requests and documentation in a timely fashion following the date the withdrawal is initiated. There are three types of withdrawals (see below). Depending on the type of withdrawal, the academic dean may review the withdrawal or it may be required to be submitted to the University Withdrawal/Reinstatement Committee. Students considering a withdrawal should discuss their options with their academic advisor or dean prior to any deadlines.

Current term. Students may request a withdrawal for the current term at any point during the term after the official drop/add period. Withdrawals submitted prior to the last day of classes for the same term are considered current term withdrawals. Students should check the Academic Calendar for the date of the last day of classes for the term in question. The academic dean may render decisions to approve or deny withdrawal requests in accordance with University and college policies and procedures. Students are held grade liable for all classes for withdrawals requested after the 7th week of the term. Current term withdrawals may result in a "WD" grade appearing on the transcript.

Retroactive withdrawals initiated within one year (three terms, including the current term and summer): These withdrawals are considered retroactive withdrawals and are reviewed by the academic dean in a fashion similar to current term withdrawals. Students' academic deans may require additional documentation for retroactive withdrawals. Students should first meet with their academic dean to determine the steps to petition for a retroactive withdrawal. The academic dean may render decisions to approve or deny withdrawal requests in accordance with University and college policies and procedures. No petitions will be accepted after the student's degree has posted. If approved, retroactive withdrawals will have "WD" grades assigned.

Retroactive withdrawal over one year. Withdrawals initiated, but not completed or approved within one year, are only considered by a student's dean's office in extraordinary circumstances. Students should first meet with their academic dean to determine if their request for a withdrawal over one year will be considered and then if so, they should submit any required supporting documentation of extenuating circumstances. The academic dean may render decisions to approve or deny withdrawal requests in accordance with University and college policies and procedures. No petitions will be accepted after the student's degree has posted. If approved, retroactive withdrawals will have "WD" grades assigned.

Note: Withdrawal petitions initiated for terms older than the one year limit, or not completed, are considered exceptional and must be reviewed by committee.

The decision of the University Withdrawal/Reinstatement Committee constitutes final university action.

Readmission after Multiple Withdrawals

When a student has withdrawn from the University three or more times, subsequent readmission must first be considered by the University Withdrawal/Reinstatement Committee whose charge is to assess the student's capability of making satisfactory progress toward degree. This committee, appointed by the Council of Associate and Assistant Deans, will then make a recommendation to the dean of the student's college, who will make the final decision in cases where a student's Florida State University GPA is less than 12 quality

points deficient. In cases where the student has multiple withdrawals or dismissals, and a GPA that is more than 12 quality points deficient, the University Withdrawal Reinstatement Committee will make the final determination.

Medical Course Drop/Withdrawal

Medical course drops are generally recommended for approval by the dean for unforeseeable illnesses or injuries that have interfered with the student's ability to complete specific course(s). Similarly, medical withdrawals (all courses dropped) may be approved for acute, severe illnesses or injuries that incapacitate the student. Chronic conditions generally do not qualify unless the student has been stable for a sustained length of time and then experiences an unexpected change in health status. Students with chronic or recurring health problems should consult with their clinicians and carefully assess a realistic class schedule based on their condition and their likelihood of relapses. Courses approved to be dropped or withdrawn under these circumstances may be noted on the transcript with "WD" grades.

Note: For information regarding medical course drops and medical withdrawals, visit *https://dos.fsu.edu/withdrawal/withdrawal-process-information/medical-mmental-health-withdrawal-mhw* or call the Office of Withdrawal Services at *(850) 644-1741*.

Guidelines for Field Placement Fitness

These guidelines apply to all student field placements, including internships, practicum experiences, and student teaching. The University has the authority to determine both the fitness of its students to be placed in field placements and the suitability of particular field placement sites. The academic judgment of qualified faculty, on issues relevant to the professional requirements of a given field, is critical to this process.

Students may either be denied a field placement or removed from a placement on the basis of the academic judgment of qualified faculty. Students have the right to be informed of the academic and non-academic requirements for obtaining a field placement early in their majors. They also have the right, except in emergency cases, to receive notice of their deficiencies and an opportunity to correct those deficiencies prior to a final decision. Students should consult the information provided by each specific college, department, or academic program of interest for more detailed information.

FloridaShines Information

All current and prospective students of higher education in the state of Florida may access the FloridaShines Web site. By logging on to *http://www.floridashines.org* you can perform a variety of tasks, including the following:

- View a map indicating the location of every participating college or university
- Search course catalogs from all public and many private Florida colleges and universities
- Get questions answered about financial aid
- Plan your course of study and compare majors and degree requirements
- Get a copy of your unofficial transcript
- Investigate career options through your institution's career center
- Find out general information about every participating college or university in the program.

Each FSU student may use their University FSUID and password to log on to the FloridaShines Web site.

Second Majors and Academic Regulations

Students pursuing a second, or additional, major should be aware that the **primary major only** determines the selection of the student's academic dean for the purposes of academic regulations at Florida State University. That is, rules regarding student dismissal, reinstatement, and all general academic qualifications at the University are governed and enforced by the primary major and that major's corresponding academic dean. Conflicts between primary and secondary major policies shall in all cases be resolved in favor of the primary major. Second major academic deans shall only be concerned with the student's completion of all requirements, prerequisites, etc., for that second major.

Students pursuing two or more majors are advised that the degree earned, posted on the transcript, and appearing on the diploma will be the official *degree name* associated with the primary major. Major name(s) are not printed on diplomas and only appear on the academic transcript. When declaring a second major, students should consult with their academic advisor to determine which major is primary as this will determine the academic dean, the degree requirements that must be satisfied, and the degree name that will appear on the diploma.

Dual degrees and double majors must be declared by the end of the semester in which students will earn ninety cumulative credit hours toward their degree program at Florida State University.

In special circumstances, students may petition their primary academic dean for an exception. Petitions should document the students plan to graduate within four years at Florida State University. Special consideration will be given to take into account accelerated credit earned while in high school. If a dual degree or double major is declared, but not completed, students will not be eligible for a refund of excess credit charges accrued while working on their dual degree or double major.

Correspondence Study

All correspondence instruction for the Florida State University System is administered through the University of Florida's Division of Continuing Education, Department of Flexible Learning.

College credit, and continuing professional education courses are available anytime, anywhere through an online learning management system. Flexible Learning offers a number of courses to students who would like either a flexible schedule or an opportunity to take extra courses. It is possible to enroll any time during the year.

Regularly enrolled students may not engage in correspondence study while in residence at the University. Students who expect to take correspondence courses during a break in residence should discuss these plans with their faculty advisor and then obtain written approval from their academic deans.

College courses include Economics, Education, English, History, Journalism, Marketing, Political Science, Psychology and more. Professional Development courses include a Dietary Manager Certificate and a Bail Bond Agent Certificate.

Any teacher in the state of Florida can now use correspondence course credit, as appropriate, to apply toward the recertification of their teaching licenses. Moreover, there is no limit to the number of courses that may fulfill the requirements.

Additional information on Flexible Learning college courses and fees can be found at *http://flexible.dce.ufl.edu* and information for the Professional Development courses can be found at *http://pd.dce.ufl.edu*. We can also be contacted by phone 8:00 a.m. to 5:00 p.m., Monday through Friday, except holidays, at *(800)-327-4218*, *(352)-392-1711*, or by e-mail at *learn@dce.ufl.edu*.

Transfer Credit

Transfer Credit. The University accepts transfer credit from all nationally accredited institutions (or comparable international institutions) for coursework with grades of "D–" or better. All grades earned at other institutions are entered exactly as earned on a student's Florida State University permanent record at the time of transfer. The Florida State transcript displays the FSU GPA, the transfer GPA and a cumulative GPA comprised of FSU and transfer grades combined.

Note: Effective Fall 2014, credit earned while on academic dismissal from FSU may be transferred to FSU and count toward the total hours required for the degree. All transfer credit policies pertaining to the nature and type of credit apply in the same as manner as credit while not on dismissal.

Vocational, Technical, or Below College-Level Credit. No credit is allowed for vocational, technical, or below college-level coursework. However, a student's academic dean may allow credit for up to six hours of vocational or technical credit upon appeal.

Experiential Credit. The University does not award credit or accept transfer credit based on professional work experience.

International Credit. An official course-by-course evaluation is required for all academic records from non-U.S. institutions. We recommend the evaluation be done by a member of the National Association of Credential Evaluation Services (*http://naces.org*).

Florida Statewide Common Course Numbering System (SCNS). The state of Florida utilizes a common course numbering system to facilitate the transfer of credit for equivalent courses among the state's colleges and universities. SCNS is now used at all public and selected nonpublic institutions of higher education in Florida.

Courses that have the same academic content and are taught by faculty with comparable credentials are given the same prefix and last three numerical digits, and are considered equivalent courses; thus, THE 1234 taken at one institution is equivalent to THE 3234 at another institution. Equivalent courses are guaranteed to transfer to any other institution participating in SCNS.

Florida Statewide Articulation Agreement. The state of Florida guarantees Associate of Arts (AA) degree recipients from Florida public institutions acceptance of a minimum of sixty semester hours of college credit toward the baccalaureate degree with no additional general education core requirements.

Military Credit. For information regarding Military Credit, please refer to the "Student Veteran Information" chapter herein.

The Transfer Credit Process. Students who have taken college-level coursework are required to submit official transcripts from all institutions attended. Transfer credit will be evaluated and applied towards a student's academic program in one of three ways: 1) applied as a major/minor requirement replacing the equivalent required or optional course taught by the University; 2) applied as a Liberal Studies requirement replacing the equivalent required or optional course taught by the University; or 3) applied as a general elective that may or may not satisfy degree requirements.

At the undergraduate level, credit is first evaluated by the Office of the University Registrar's Records Audit and Analysis section to determine if the institution is regionally accredited (or comparable accreditation at international institutions), and if the credit is college level, vocational, or technical. Vocational or technical credit is not normally accepted for transfer; however, the baccalaureate dean may approve up to six semester hours of technical or vocational credit on appeal. The credit is then evaluated by the Office of Undergraduate Studies to determine if it is applicable to General Education requirements. Undergraduate-level or graduate-level courses are also evaluated by the student's chosen major department to determine degree applicability for major/minor requirements. During the review by the Office of Undergraduate Studies or the Upper-Level Department, the individual course prefix, number, description, host institution catalog, syllabus, and other supporting documentation are reviewed to determine if the course is logically and qualitatively equivalent to a Florida State course. All college-level coursework that is not applicable to Liberal Studies or major/minor requirements will be designated as general elective credit.

At the graduate level, all transfer credit must: 1) be recommended by the major department; 2) be evaluated as graduate work by the Office of the University Registrar at Florida State University; and 3) have been completed with grades of 3.0 ("B") or better.

Grievance Process. Students who allege that transfer credit was improperly evaluated and applied may have their grievances addressed through the Director of Admissions for initial posting of examination credit, the University Registrar for the initial posting of general elective credit, the academic dean of their selected major for major coursework and degree program requirements, and the dean of Undergraduate Studies for General Education equivalency. If no resolution is reached, the student may file a grievance with the University. The University grievance policy is outlined in the "Academic Integrity and Grievances" chapter of this *General Bulletin*.

Credit for Nontraditional Courses, Including Short Courses and Massive Open Online Courses (MOOC), Prior to Initial Enrollment

Non-traditional courses have many different purposes, including the recertification of persons for various subject matters and professional specialties. Short courses for credit shall have the same number of contact hours as do regularly scheduled courses; i.e., a one-hour course must have fifteen total contact hours; a two-hour course must have thirty total contact hours; a three-hour course must have forty-five total contact hours. Alternatively, other nontraditional courses/settings must have an appropriate substitute(s) for the above contact hours, e.g., distance learning might include student/teacher interaction, student interaction with professor-designed materials, or other appropriate interactions. In no case can credit be given with less student participation than the above hours stipulate. Any alternative course(s) must document equivalency with traditional course(s) when such traditional courses exist.

Undergraduate students who are admitted to the University and who have completed online college-level courses prior to initial enrollment in undergraduate education may request that the University evaluate that work to determine if credit might be awarded. These may include, but are not limited to, massive open online courses (MOOCs). Students wishing to have such online coursework evaluated for the purpose of receiving credit should inform the Office of Admissions as soon as possible but prior to enrolling in classes at the University.

Courses that follow nontraditional scheduling patterns, such as running over from one term to the next, may be scheduled through the Center for Professional Development and Public Service or through the Office of the University Registrar. Course hours must be scheduled in keeping with the above policy on credit for nontraditional courses, including short courses, adopted by the Faculty Senate.

Undergraduate students who are admitted to the University and who have completed massive open online courses (MOOCs) may request evaluation of that coursework for transfer credit. The evaluation process will follow the standard transfer credit evaluation processes used for all transfer credit.

Award of credit for that work must meet the following conditions:

1. University faculty have determined the course content and learning outcomes to be comparable to a course offered at the institution;
2. Courses meet the quality and accreditation standards intended for a transfer course, and
3. The subject area faculty have determined that the course is relevant to the student's intended program of study.

Students wishing to have such MOOC coursework evaluated for the purpose of receiving credit should inform the Office of Admissions as soon as possible but prior to enrolling in classes at the university.

Applicants will be notified if the credit has been approved. If they wish to appeal the decision they may do so following the normal University grievance process for transfer credit evaluation.

Credit awarded to MOOC coursework completed prior to the initial term of enrollment shall be posted on the student's transcript.

Programs for Acceleration

Florida State University has established several avenues that permit a reduction in the normal amount of time required to complete the requirements for a baccalaureate degree.

Dual Enrollment

Students who are enrolled in college coursework prior to graduation from high school may be awarded college credit at Florida State University. Refer to the 'Transfer Credit' section of this chapter for specific information concerning what may transfer. The Academic Center for Excellence (ACE) provides academic advising and registration for local high school students who meet eligibility requirements to take dual enrollment classes at FSU. For more information related to program qualifications and application procedures, visit *http://ace.fsu.edu/dual-enrollment* or call *(850) 645-0852*.

Credit by Examination

The University recognizes the following examination programs for which students may receive academic credit or exemption in lieu of coursework. These programs permit the qualified student to earn by examination up to thirty semester hours of credit toward General Education requirements and up to forty-five semester hours of credit toward total baccalaureate degree requirements.

Students earning credit by examination must still satisfy departmental major and/or minor requirements; the University's coursework requirement of forty-five semester hours in courses numbered 3000 and above; and the Section 1007.25, Florida Statutes writing requirement, which is met with General Education coursework in Quantitative and Logical Thinking, English Composition, and the E-Series and "W" (State-Mandated Writing) requirements at Florida State University (see the "Undergraduate Degree Requirements" chapter of this *General Bulletin*).

Credit toward the baccalaureate degree will not be granted for courses taken that are judged equivalent to credit already earned through one of the examination programs and vice versa. In addition, duplicate credit by examination will not be awarded.

A course may not be dropped in anticipation of receiving examination credit. The successful score must be in hand at the time the request is made to drop an equivalent course.

Credit earned by examination may be declined. Students must notify the Office of University Registrar, section of Records Audit and Analysis of this intention as soon as possible after successful scores have been received.

In accordance with the articulation agreement, students who have earned CLEP credit in partial fulfillment of the requirements for the AA degree from a Florida public institution will be awarded credit on the basis of their presentation of the AA degree. An individual evaluation will not be made.

Transfer students who have completed a general education program at a Florida public institution and whose transcript is so marked will be considered to have completed the General Education courses within the *Liberal Studies for the 21st Century* program at Florida State University. A second evaluation of CLEP credits in the liberal studies areas will not be made.

Advanced International Certificate of Education (AICE)

Students who have completed **AICE** examinations should submit their official score reports to Florida State University. Refer to the AICE Table at the end of this chapter for college course equivalents and credits earned.

Advanced Placement (AP)

Students who have participated in the **AP** Program in high school and received a score of three or better on the national examinations will receive college credit in the appropriate subject areas. Refer to the AP Table at the end of this chapter for college course equivalents and credits earned.

International Baccalaureate (IB)

Students in an **IB** Program will receive up to forty-five semester hours of credit for scores of four or higher on both higher-level and standard-level examinations. Refer to the IB Table at the end of this chapter for college course equivalents and credits earned.

College-Level Examination Program (CLEP)

Florida State University grants credit in lieu of coursework for the CLEP subject matter examinations. Credits are awarded to any regularly admitted, degree-seeking undergraduate student who scores at or above the 50th percentile level of the sophomore norms on the CLEP examinations. Students receive appropriate credit, provided they have not completed the course, whether or not they received credit, at the college level in the subject area or received credit in the subject area through AICE, AP, or IB. Courses dropped prior to completion will not count against the student as attempted credit. Academic deans shall have the authority to make exceptions concerning examinations that may fall within a subject area for which a student has existing credit. Students must have the permission of the academic dean to take a CLEP exam for any mathematics or English composition course.

At Florida State University, CLEP examinations are administered through the Office of Evaluation Services, an open test center for CLEP.

Departmental Examinations

Departments and programs of the University may offer examinations for academic credit in lieu of coursework to undergraduate students upon request. Interested students should consult with their colleges or departments concerning the availability of examinations in lieu of specific courses.

General Credit Limitations

Courses taken by correspondence through the state of Florida, Board of Governors approved off-campus courses, and/or courses evaluated and recommended as suitable for credit by the American Council on Education (ACE) may be accepted by the University. The number of hours of such courses acceptable in any individual case is at the discretion of the academic dean. The total number of such courses accepted cannot exceed thirty semester hours.

An undergraduate student may be granted a baccalaureate degree under degree requirements specified in the *General Bulletin* at the time of admission, insofar as course offerings will permit, provided the student graduates within a period of six years from date of first entry to the University. If a student exceeds six years in pursuit of the baccalaureate degree, the University may specify that the degree requirements of the most current *General Bulletin* will apply. A student may elect instead to meet the degree requirements specified in any subsequent *General Bulletin* covering a period of the student's enrollment.

When credits are more than ten years old they are subject to reevaluation by the appropriate dean before they can be applied toward graduation.

Degree-Seeking Status at Two Separate Institutions

Under certain circumstances students may wish to pursue degrees at Florida State University and another institution simultaneously. In all cases students in this situation must consult their Florida State University academic advisor and academic dean to request approval in advance. If approval is granted, students may enroll at Florida State University and another institution under the following conditions:

1. Students are responsible for complying with all rules, regulations, and policies of both institutions, including but not limited to: admission standards; academic rules; residency; fees; graduation requirements; university, college and departmental deadlines; and student codes of conduct. Florida State University is under no obligation to waive or otherwise modify any policies, requirements, or deadlines to facilitate the student's enrollment at another institution.
2. Enrollment certification and degree verification issued by Florida State University will be based solely on current registration hours with Florida State University and any awards, honors, or degrees posted by Florida State University. The University will not combine enrollment or degree verification with another institution.
3. Students receiving financial aid must designate one institution as the primary institution for financial aid distribution. The primary institution will be responsible for monitoring awards and delivery of financial aid. Florida State University will not combine enrollment hours with another institution for financial aid purposes.
4. Students who are planning to transfer courses to Florida State University should seek advising in advance of doing so. The University limits the number of transfer hours a student may bring in depending on the type of degree and program. Hours used to satisfy a previous degree, either at Florida State or another institution, cannot be counted toward the current degree the student is pursuing.

Note: Different conditions, rules, and policies may apply in the event that Florida State University has an approved consortial or cooperative agreement with the second institution. Students should be aware that approval by Florida State University to pursue degrees at Florida State and another institution in no way binds the other institution to a similar approval. Students are encouraged to consult with the second institution about its policies before enrolling in any courses.

Official E-mail Accounts for All Students at Florida State University

The official method of communication at Florida State University is your FSU e-mail account. In order to stay informed and aware, you are required to set up and maintain your account and check it regularly. If you choose to have your official FSU account forwarded to another e-mail account, you are still held responsible for all information distributed by the University to your FSU account.

Florida State University's Information Technology Services now offers new communication and online collaboration services for students and alumni, which includes:

- A free 10GB lifetime *@my.fsu.edu* e-mail account
- Up to 25GB of free cloud-based file storage
- Free online computer backup/synchronization utilities
- Free online collaboration tools
- Online MS Office Web Applications
- Mobile access to FSU e-mail

Students and alumni should go to *http://its.fsu.edu/service-catalog/communication-collaboration/office-365/studentalumni-email-service* to confirm their settings.

Questions regarding the activation of myFSU accounts can be answered by calling *644-HELP (4357)* or visiting *https://its.fsu.edu/its-service-desk/*.

Student Addresses and Contact Information

Students are required to maintain their current local and permanent addresses with the University. Address updates may be done online at *http://my.fsu.edu* by clicking on the address link under the "Personal Information" section of the Student Center or in person at the Office of the University Registrar, *3900 University Center A*. Students are strongly encouraged to provide emergency text numbers and contact information.

AICE SCORES AND UNIVERSITY COURSE EQUIVALENTS

(Numbers in parentheses indicate the number of credits awarded)

AICE Exam	Level	A, B, C, D, E
ACCOUNTING	AS-Level	ACG 1001 (3)
	A-Level	ACG 1001 (3) ACG 1004 (3)
ART AND DESIGN	AS-Level	ART 1300C (3)
	A-Level	ART 1300C (3) ART 1201C (3)
BIOLOGY	AS-Level	BSC 1005 (3) BSC 1005L (1)
	A-Level	BSC 2010 (3) BSC 2010L (1) BSC 2011 (3)
BUSINESS STUDIES	AS-Level	GEB 1011 (3)
	A-Level	GEB 1011 (3) GEB 1012 (3)
CHEMISTRY	AS-Level	CHM 1020 (3) CHM 1020L (1)
	A-Level	CHM 1020 (3) CHM 1020L (1) CHM 1045 (3) CHM 1045L (1)
CLASSICAL STUDIES	AS-Level only	CLA 2010 (3)
COMPUTING	AS-Level	CGS 2060 (3)
	A-Level	CGS 2060 (3) CGS 1074 (3)
DESIGN AND TECHNOLOGY	AS-Level	FSU **** (3)
	A-Level	FSU **** (3) ETI 1930 (3)
ECONOMICS	AS-Level	ECO 2000 (3)
	A-Level	ECO 2013 (3) ECO 2023 (3)
ENGLISH – LANGUAGE OR LANGUAGE & LITERATURE	AS-Level	ENC 1101 (3)
	A-Level	ENC 1101 (3) ENC 1102 (3)
ENGLISH – LITERATURE IN ENGLISH	AS-Level	ENC 1101 (3)
	A-Level	ENC 1101 (3) and LIT 2000 (3)
ENVIRONMENTAL MANAGEMENT	AS-Level only	EVR 1001C (4)
GENERAL PAPER	AS-Level only	IDS 2*** (3)
GEOGRAPHY	AS-Level	GEA 1000 (3)
	A-Level	GEO 2200 (3) GEO 1400 (3)
GLOBAL PERSPECTIVES	AS-Level	INR 2*** (3)
	A-Level	INR 2*** (6)
HISTORY – AMERICAN	AS-Level	AMH 2010 (3)
	A-Level	AMH 2010 (3) AMH 2020 (3)
HISTORY – EUROPEAN	AS-Level	EUH 1009 (3)
	A-Level	EUH 2000 (3) EUH 2001 (3)
HISTORY – INTERNATIONAL	AS-Level	WOH 1030 (3)
	A-Level	WOH 1023 (3) WOH 1030 (3)
HISTORY - ALL OTHER AREAS	AS-Level	Subject to institutional review (3)
	A-Level	Subject to institutional review (6)
LATIN	AS-Level	LAT 1120 (4) LAT 1121 (4)
MARINE SCIENCE	AS-Level	OCE 1001 (3)
	A-Level	OCE 1001 (3) OCB 2*** (3)
MATHEMATICS	AS-Level	MAC 1140 (3) MAC 1114 (3)
	A-Level	MAC 1114 (3) MAC 2311 (4)
MATHEMATICS, FURTHER	A-Level only	MAC 2311 (4) MAC 2312 (4)
MEDIA STUDIES	AS-Level	DIG 1*** (3)
	A-Level	DIG 1*** (6)
MUSIC	AS-Level	MUT 1001 (3)
	A-Level	MUT 1001 (3) MUL 2010 (3)
PHYSICS	AS-Level	PHY 1020 (3) PHY 1020L (1)
	A-Level	PHY 2053C (4) PHY 2054C (4)
PSYCHOLOGY	AS-Level	PSY 2012 (3)
	A-Level	PSY 2012 (3) PSY 4930 (3)
SOCIOLOGY	AS-Level	SYG 1000 (3)
	A-Level	SYG 1000 (3)
THINKING SKILLS	AS-Level	PHI 2*** (3)
	A-Level	PHI 2*** (3) PHI 2100 (3)
TRAVEL AND TOURISM	AS-Level	HFT 3000 (3)
	A-Level	HFT 3000 (3) HFT 1*** (3)
FRENCH LANGUAGE	AS-Level only	FRE 2220 (4)
FRENCH LITERATURE	AS-Level only	FRW 3100 (3)
FRENCH	A-Level	FRE 2220 (4) FRE 3420 (3)
GERMAN LANGUAGE	AS-Level only	GER 2220 (4)
GERMAN	A-Level	GER 2220 (4) GER 2221 (4)
PORTUGUESE	AS-Level	POR 1120 (4) POR 1121 (4)
	A-Level	POR 2220 (4)
SPANISH LANGUAGE	AS-Level only	SPN 2220 (4)
SPANISH LITERATURE	AS-Level only	SPW 3030 (3)
SPANISH	A-Level	SPN 2220 (4) SPN 2240 (3)
FOREIGN LANGUAGE, LITERATURE - ALL OTHER AREAS	AS-Level	Subject to institutional review (3–8)
	A-Level	Subject to institutional review (6–8)

Note: This table is subject to change. Recent legislation calls for an annual review to determine the appropriate examination scores and courses for which credit is to be granted.

AP SCORES AND UNIVERSITY COURSE EQUIVALENTS

(Numbers in parentheses indicate the number of credits awarded)

AP Exam	3	4	5
ART HISTORY	ARH 2000 (3)	ARH 2050 (3) ARH 2051 (3)	Same as 4
BIOLOGY	BSC 1005 (3) BSC 1005L (1)	BSC 2010 (3) BSC 2010L (1)	BSC 2010 (3) BSC 2010L (1) BSC 2011 (3) BSC 2011L (1)
CALCULUS–AB	MAC 2311 (4)	Same as 3	Same as 3
CALCULUS–BC	MAC 2311 (4)	MAC 2311 (4) MAC 2312 (4)	Same as 4
CAPSTONE SEMINAR	FSU **** (3)	Same as 3	Same as 3
CAPSTONE RESEARCH	FSU **** (3)	Same as 3	Same as 3
CALCULUS AB–SUBSCORE	MAC 2311 (4)	Same as 3	Same as 3
CHEMISTRY	CHM 1020 (3) CHM 1020L (1)	CHM 1045 (3) CHM 1045L (1)	CHM 1045 (3) CHM 1045L (1) CHM 1046 (3) CHM 1046L (1)
CHINESE LANGUAGE & CULTURE	CHI 2220 (4)	CHI 2220 (4) CHI 2300 (4)	Same as 4
COMPUTER SCIENCE A	CGS 2060 (3)	Same as 3	Same as 3
COMPUTER SCIENCE AB	CGS 1076 (3)*	Same as 3	Same as 3
COMPUTER SCIENCE PRINCIPLES	CGS 1*** (3)	Same as 3	Same as 3
ECONOMICS–MACRO	ECO 2013 (3)	Same as 3	Same as 3
ECONOMICS–MICRO	ECO 2023 (3)	Same as 3	Same as 3
ENGLISH–LANGUAGE	ENC 1101 (3)	ENC 1101 (3) ENC 1102 (3)	Same as 4
ENGLISH–LITERATURE	ENC 1101 (3)*	ENC 1101 (3) and LIT 2000 (3)*	Same as 4
ENVIRONMENTAL SCIENCE	GEO 1330 (3)	Same as 3	Same as 3
FRENCH–LANGUAGE	FRE 2220 (4)	Same as 3	FRE 2220 (4) FRE 3420 (3)
FRENCH–LITERATURE	FRW 3100 (3)	FRW 3100 (3) FRW 3101 (3)	Same as 4
GERMAN–LANGUAGE	GER 2220 (4)	GER 2220 (4) GER 2221 (4)	Same as 4
GOVERNMENT & POLITICS: COMPARATIVE	CPO 2002 (3)	Same as 3	Same as 3
GOVERNMENT & POLITICS: UNITED STATES	POS 1041 (3)	Same as 3	Same as 3
HISTORY–EUROPEAN	EUH 1009 (3)	EUH 2000 (3) EUH 2001 (3)	Same as 4
HISTORY–UNITED STATES	AMH 2010 (3)	AMH 2010 (3) AMH 2020 (3)	Same as 4
HISTORY–WORLD	WOH 1023 (3)	Same as 3	WOH 1023 (3) WOH 1030 (3)
HUMAN GEOGRAPHY	GEO 1400 (3)	Same as 3	Same as 3
ITALIAN LANGUAGE & CULTURE	ITA 2220 (4)	ITA 2220 (4) ITA 2240 (3)	Same as 4
JAPANESE LANGUAGE & CULTURE	JPN 2220 (4)	JPN 2220 (4) JPN 2300 (4)	Same as 4
LATIN LITERATURE	LNW 1700 (3)*	Same as 3	Same as 3
LATIN	LAT 2220 (4)	Same as 3	Same as 3
MUSIC THEORY (if composite score is 3 or higher)	MUT 1001 (3)	Same as 3	Same as 3
MUSIC THEORY (if both aural and non-aural sub scores are 3 or higher)	MUT 1111 (3) MUT 1241 (1)	Same as 3	Same as 3
PHYSICS 1	PHY 2053C (4)	Same as 3	Same as 3
PHYSICS 2	PHY 2054C (4)	Same as 3	Same as 3
PHYSICS B	PHY 2053C (4)	PHY 2053C (4) PHY 2054C (4)	Same as 4
PHYSICS C–ELECTRICITY & MAGNETISM	PHY 2054C (4)	PHY 2049C (5)	Same as 4
PHYSICS C–MECHANICS	PHY 2053C (4)	PHY 2048C (5)	Same as 4
PSYCHOLOGY	PSY 2012 (3)	Same as 3	Same as 3
RUSSIAN LANGUAGE & CULTURE	RUS 2220 (4)	RUS 2220 (4) RUS 2330 (3)	Same as 4
SPANISH–LANGUAGE	SPN 2220 (4)	SPN 2220 (4) SPN 2240 (3)	Same as 4
SPANISH–LITERATURE	SPW 3030 (3)	SPW 3030 (3) SPW 3132 (3)	Same as 4
STATISTICS	STA 2023 (3)	Same as 3	Same as 3
STUDIO ART–DRAWING	ART 1300C (3)	Same as 3	Same as 3
STUDIO ART: 2-D	ART 1201C (3)	Same as 3	Same as 3
STUDIO ART: 3-D	ART 1203 (3)	Same as 3	Same as 3

Note: This table is subject to change. Recent legislation calls for an annual review to determine the appropriate examination scores and courses for which credit is to be granted.

CLEP SCORES AND UNIVERSITY COURSE EQUIVALENTS

(Numbers in parentheses indicate the number of credits awarded)

CLEP Exam	Course	Minimum Score
Algebra, College	MAC 1105 (3)	50
American Government	POS 1041 (3)	50
American Literature	AML 1000 (3)	50
Biology, General	BSC 1005 (3)	50
Business Law, Introduction to	BUL 2241 (3)	50
Calculus with Elementary Functions	MAC 2233 (3)	50
Chemistry, General	CHM 1020 (3)	50
College Composition (includes essay)*	ENC 1101 (3) ENC 1102 (3)	50
College Composition Modular	No credit	
Educational Psychology, Introduction to	EDP 1002 (3)	50
English Literature	ENL 1000 (3)	50
Financial Accounting	ACG 1001 (3)	50
History of the US to 1877	AMH 2010 (3)	50
History of the US from 1865	AMH 2020 (3)	50
Humanities	HUM 2235 (3)	50
Human Growth & Development	DEP 2004 (3)	50
Information Systems	CGS 2060 (3)	50
Macroeconomics, Principles of	ECO 2013 (3)	50
Management, Principles of	MAN 2021 (3)	50
Marketing, Principles of	MAR 2011 (3)	50
Mathematics, College	MGF 1106 (3)	50
Microeconomics, Principles of	ECO 2023 (3)	50
PreCalculus	MAC 1140 (3)	50
Psychology, Introductory	PSY 2012 (3)	50
Sociology, Introductory	SYG 1000 (3)	50
Western Civilization I, to 1648	EUH 2000 (3)	50
Western Civilization II, from 1648	EUH 2001 (3)	50

*No credit will be awarded for ENC 1102 if credit has already been earned for ENC 1101.

World Language Exam:	Level 1 (current level in brackets)	Level 2 (current level in brackets)	Level 3 (current level in brackets)
French	[50] FRE 1120 (4)	[59] FRE 1120 (4) FRE 1121 (4)	[66] FRE 1120 (4) FRE 1121 (4) FRE 2992 (4)
German	[50] GER 1120 (4)	[60] GER 1120 (4) GER 1121 (4)	[66] GER 1120 (4) GER 1121 (4) GER 2992 (4)
Spanish	[50] SPN 1120 (4)	[63] SPN 1120 (4) SPN 1121 (4)	[68] SPN 1120 (4) SPN 1121 (4) SPN 2992 (4)

Note: These tables are subject to change. Recent legislation calls for an annual review to determine the appropriate examination scores and courses for which credit is to be granted.

IB SCORES AND UNIVERSITY COURSE EQUIVALENTS

(Numbers in parentheses indicate the number of credits awarded)

IB Exam	4	5	6–7
ART HISTORY	ARH 2000 (3)	ARH 2050 (3) ARH 2051 (3)	Same as 5
ASTRONOMY	AST 1002 (3)	Same as 4	Same as 4
BIOLOGY	BSC 1005 (3) BSC 1005L (1)	BSC 1005 (3) BSC 1005L (1) BSC 2010 (3) BSC 2010L (1)	Same as 5
BUSINESS AND MANAGEMENT	GEB 1011 (3)	GEB 1011 (3) GEB 1012 (3)	Same as 5
CHEMISTRY	CHM 1020 (3) CHM 1020L (1)	CHM 1020 (3) CHM 1020L (1) CHM 1045 (3) CHM 1045L (1)	Same as 5
COMPUTER SCIENCE	CGS 2060 (3)	CGS 2060 (3) CGS 1074 (3)	Same as 5
DANCE	DAA 2103 (2)	DAA 2103 (2) DAN 2100 (3)	Same as 5
DESIGN TECHNOLOGY	ETI 1410 (3)	ETI 1410 (3) ETI 1930 (3)	Same as 5
ECONOMICS	ECO 2000 (3)	ECO 2013 (3) ECO 2023 (3)	Same as 5
ECOSYSTEMS AND SOCIETIES	GEO 1330 (3)	Same as 4	Same as 5
ENGLISH LANGUAGE OR ENGLISH A1	ENC 1101 (3)	ENC 1101 (3) ENC 1102 (3)	Same as 5
ENGLISH LITERATURE	LIT 2000 (3)	LIT 2000 (3) ENC 1145 (3)	Same as 5
ENVIRONMENTAL SYSTEMS	GEO 1330 (3)	GEO 1330 (3) ISC 1050 (3)	Same as 5
FILM STUDIES	FIL 2001 (3)	FIL 2001 (3) FIL 2002 (3)	Same as 5
FRENCH	FRE 1120 (4) FRE 1121 (4)	FRE 1120 (4) FRE 1121 (4) FRE 2220 (4)	Same as 5
FRENCH A1 or A2	FRW 3100 (3)	FRW 3100 (3) FRW 3101 (3)	Same as 5
GEOGRAPHY	GEA 1000 (3)	GEO 1400 (3) GEO 2200 (3)	Same as 5
GERMAN	GER 1120 (4) GER 1121 (4)	GER 1120 (4) GER 1121 (4) GER 2220 (4)	Same as 5
GERMAN A1 or A2	GER 3310 (3)	GEW 4900r (6)	Same as 5
HISTORY–ALL REGIONS	WOH 1030 (3)	WOH 1030 (3) WOH 1023 (3)	Same as 5
HISTORY–AFRICA	WOH 1030 (3)	WOH 1030 (3) AFH 1000 (3)	Same as 5
HISTORY–AMERICAS	WOH 1030 (3)	WOH 1030 (3) AMH 2010 (3)	Same as 5
HISTORY–EAST & SOUTHEAST ASIA	WOH 1030 (3)	WOH 1030 (3) ASH 3100 (3)	Same as 5
HISTORY–EUROPE	WOH 1030 (3)	WOH 1030 (3) WOH 1023 (3)	Same as 5
HISTORY–WEST & SOUTH ASIA	WOH 1030 (3)	WOH 1030 (3) ASH 1044 (3)	Same as 5
INFORMATION AND TECHNOLOGY FOR A GLOBAL SOCIETY	FSU **** (3)	FSU **** (6)	Same as 5
ISLAMIC HISTORY	ASH 1044 (3)	ASH 1044 (3) REL 3363 (3)	Same as 5
ITALIAN	ITA 1120 (4) ITA 1121 (4)	ITA 1120 (4) ITA 1121 (4) ITA 2220 (4)	Same as 5
JAPANESE	JPN 1120 (4) JPN 1121 (4)	JPN 1120 (4) JPN 1121 (4) JPN 2220 (4)	Same as 5
LATIN	LAT 1121 (4)	LAT 1121 (4) LAT 2220 (4)	Same as 5
LITERATURE AND PERFORMANCE	FSU **** (3)	Same as 4	Same as 5
MANDARIN	CHI 1120 (4) CHI 1121 (4)	CHI 1120 (4) CHI 1121 (4) CHI 2220 (4)	Same as 5
MARINE SCIENCE	OCE *NNN (3)	Same as 4	Same as 5
MATHEMATICS	MAC 1147 (5)	MAC 1147 (5) MAC 2233 (3)	MAC 1147 (5) MAC 2311 (4)
MATHEMATICS–FURTHER (Advanced)	MGF 1106 (3)	MGF 1106 (3) FSU **** (3)	Same as 5
MATHEMATICS–METHODS	MAC 1105 (3)	MAC 1105 (3) MAC 1140 (3)	MAC 1140 (3) MAC 2233 (3)
MATHEMATICS–STUDIES	MAT 1033 (3)	MAT 1033 (3) MGF 1106 (3)	Same as 5
MUSIC	MUL 2010 (3)	MUL 2010 (3) MUT 1001 (3)	Same as 5
PHILOSOPHY	PHI 2010 (3)	PHI 2010 (3) PHI 2630 (3)	Same as 5
PHYSICS	PHY 1020 (3) PHY 1020L (1)	PHY 2053C (4) PHY 2054C (4)	Same as 5
PORTUGUESE	POR 1120 (4) POR 1121 (4)	POR 1120 (4) POR 1121 (4) POR 2220 (4)	Same as 5
PSYCHOLOGY	PSY 2012 (3)	PSY 2012 (3) PSY 4930r (3)	Same as 5
RUSSIAN	RUS 1120 (4) RUS 1121 (4)	RUS 1120 (4) RUS 1121 (4) RUS 2220 (4)	Same as 5
RUSSIAN A1 or A2	RUW 3100 (3)	RUW 3100 (3) RUW 3101 (3)	Same as 5
SOCIAL ANTHROPOLOGY	ANT 2410 (3)	ANT 2410 (3) ANT 4930r (3)	Same as 5
SPANISH	SPN 1120 (4) SPN 1121 (4)	SPN 1120 (4) SPN 1121 (4) SPN 2220 (4)	Same as 5
SPANISH A1 or A2	SPW 3030 (3)	SPW 3030 (3) SPW 4930r (3)	Same as 5
THEATRE ARTS	THE 2000 (3)	THE 2000 (3) THE 3931r (3)	Same as 5
VISUAL ARTS (Design)	ART 2003C (3)	ART 2003C (3) ART 1201C (3)	Same as 5
WORLD RELIGION	REL 1300 (3)	Same as 4	Same as 5

Credit may be awarded for other exams based on content and score.

Note: This table is subject to change. Recent legislation calls for an annual review to determine the appropriate examination scores and courses for which credit is to be granted.

UNDERGRADUATE DEGREE REQUIREMENTS

Degrees Offered

Florida State University confers at the bachelor's level the Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Science in Nursing, Bachelor of Music, Bachelor of Music Education, Bachelor of Social Work, and the Bachelor of Science degrees, the requirements for which are described in detail below. Students may find requirements for all graduate degrees (master's, specialist, professional, and doctoral) in the *Graduate Bulletin*.

Students pursuing a baccalaureate degree at Florida State University must meet a number of state- and University-wide degree requirements as they progress through their course of studies. In general, freshman and sophomore students in most majors emphasize work in a broad-based liberal arts curriculum, described below as *Liberal Studies for the 21st Century*, and in consultation with their advisors select a major concentration. By the end of the sophomore year, all students should have completed at least half of the General Education portion of the *Liberal Studies for the 21st Century* program, including the English Composition and Quantitative and Logical Thinking requirements.

At about the end of the sophomore year (fifty-two degree hours), students formally select a major and request acceptance by the college in which the major is taught. Students transferring into the University with an Associate of Arts (AA) degree from a Florida public community college or university, or transferring fifty-two or more semester hours of credit, are eligible to be admitted directly into the college of their choice provided they meet minimum requirements for the major selected.

Students at the junior and senior level complete the requirements of their chosen major and often of a minor field. They may also have to fulfill additional requirements specific to their college and/or certification requirements to engage in a particular profession for which their undergraduate major is preparatory.

Understanding these degree requirements is crucial to the smooth progression to graduation. Students are encouraged to consult with their academic advisors regularly throughout their undergraduate years to ensure that they are making appropriate progress toward their degree and to consult their academic deans' offices, Advising First, and the Office of the University Registrar for assistance and clarification of degree requirements.

Baccalaureate Degree Requirements

Florida State University will confer the bachelor's degree when the following conditions have been met. Restrictions may be found under 'Transfer Credit' in the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Satisfactory completion of Florida State University's Liberal Studies requirements with a minimum overall adjusted grade point average of 2.0. The Liberal Studies Program Requirements are divided into two curriculum segments: General Education and University-Wide Requirements, which encompass all state requirements. *A full discussion of these requirements can be found in this chapter below, under the "Liberal Studies for the 21st Century Program"*.

1. Satisfactory completion of major requirements in a chosen degree program, including additional requirements set by the college offering the degree. The student's degree program will appear on the baccalaureate diploma. A list of degree programs is available in the "Academic Degree and Certificate Programs" chapter of this *General Bulletin*. Major names are not printed on university diplomas.
2. A minimum adjusted grade point average (GPA) of 2.0 on all coursework taken at Florida State University is required for a degree. In addition, the overall GPA on all college-level work attempted (high school dual enrollment, transfer and FSU coursework) is used as part of the determination of degrees of distinction. See the "Degrees of Distinction" section of this chapter for more information.
3. Successful completion of a minimum of one hundred twenty unduplicated semester hours. Physical education activity courses may count as elective credit except in cases where an individual degree program places a specific limit.
4. Completion of at least forty-five semester hours in courses numbered 3000 and above, thirty of which need to be taken at Florida State University.
5. Completion of the last thirty semester hours and half of the major course semester hours, in residence at this University. In cases of emergency, a maximum of six hours of the final thirty semester hours may be completed by correspondence or residence at another accredited institution with the approval of the academic dean. College-Level Examination Program (CLEP) credit earned may be applied to the final thirty-hour requirement provided that the student has earned at least thirty semester hours credit at Florida State University.
6. Students who have entered a university in the State of Florida, Division of Colleges and Universities, with fewer than sixty hours of credit in the fall of 1976 or any time thereafter are required to earn at least nine hours prior to graduation by attendance in one or more Summer terms at one of the State University System institutions. The University President may waive the application of this rule in cases of unusual hardship to the individual. Students may request waivers of this requirement by giving the details of their hardships through their academic deans to the Vice President for Faculty Development and Advancement. Prior to 2011, students who had earned nine semester hours of credit through approved acceleration methods (AP, IB, CLEP, and approved dual enrollment courses) were exempt from the summer residency requirement. Effective 2011, this exemption is no longer available.
7. Satisfaction of the foreign-language admissions requirement by having two sequential units of the same foreign language in high school, or eight semester hours of the same foreign language in college, or documented equivalent proficiency.
8. Successful completion of the Civic Literacy requirement.
9. Successful completion of coursework constituting the student's program of studies, minor, honors thesis, or certification examination does not guarantee the awarding of the baccalaureate degree. Faculty judgment of the academic performance of the student is inherent in the educational process in determining whether the awarding of the baccalaureate degree or admission into a higher level degree program is warranted.

Note: For the purpose of establishing residency, the various Summer sessions are considered one semester.

Following is a full discussion of state- and University-wide degree requirements at the undergraduate level. Requirements specific to a particular college may be found in the section of this *General Bulletin* describing that college. Major and minor requirements may be found under the appropriate department in the departmental listings.

State Mandated Academic Learning Compacts (SMALCs)

The State Board of Governors has directed each university to develop Academic Learning Compacts for every baccalaureate degree program. A State University System Academic Learning Compact (SMALC) identifies for each academic bachelor's program what students will learn by the end of a program and how knowledge is measured above and beyond course grades.

A SMALC must pinpoint the core learning expectations in the areas of communication, critical thinking skills, and content/discipline knowledge and skills. Additionally, it must identify the corresponding assessments used to determine how well the student has assimilated the articulated expectations.

Successful performance related to the State Mandated Academic Learning Compacts specific to your degree is a requirement for graduation.

Visit *https://provost.fsu.edu/outcomes/smalcs-report/* to view the current version of the SMALCs for your degree. Simply select your major and detailed information is provided. You may also obtain information pertaining to SMALCs by contacting the academic departments.

Division of Undergraduate Studies

Dean: Karen Laughlin
Associate Deans: Craig Filar, Sara Hamon, Lynn Hogan, Nikki Raimondi, Annette Schwabe; **Assistant Deans:** Heather Bishop, Kacy King

The Division of Undergraduate Studies is responsible for the supervision and monitoring of state- and University-wide degree requirements as well as University-wide academic support offices. Overseen by the Dean of Undergraduate Studies, the division includes the Office of Undergraduate Studies (the academic home of most freshmen and sophomores), Advising First, the Center for Academic Retention and Enhancement (CARE), the University Honors Program, Transfer and Information Services, the Academic

Center for Excellence (ACE), the Office of National Fellowships, and the Center for Undergraduate Research and Academic Engagement. For further information on these academic support offices see 'Honors Program' in the "University Honors Program and Honor Societies" chapter and 'Advising First', the 'Center for Academic Retention and Enhancement', 'Center for Undergraduate Research and Academic Engagement', and 'Transfer and Information Services' in the "Academic Advising and Support Services" chapter of this *General Bulletin*.

Freshmen and sophomores have their programs and coursework supervised by the Office of Undergraduate Studies. Exceptions to this placement are students accepted into the College of Music, College of Motion Picture Arts, or into the Bachelor of Fine Arts (BFA) program in theatre or dance. Students in these majors are advised and supervised directly within their own schools or departments. The Office of Undergraduate Studies is the dean's office that administers the academic and advisement program, regardless of intended major, for all other freshman and sophomore students.

Liberal Studies for the 21st Century Program

The *Liberal Studies for the 21st Century* program provides an educational foundation that enables FSU students to thrive in and beyond the classroom. Across the program, students build the knowledge and skills needed to be successful in the major and life after college. Liberal Studies courses help FSU students become:

- Critical analysts of quantitative and logical claims (Quantitative and Logical Thinking)
- Critical readers and clear, creative, and convincing communicators (English Composition)
- Critical analysts of theories and evidence about social forces and social experience (Social Sciences)
- Critical analysts of theories and evidence about historical events and forces (History)
- Thoughtful patrons of and participants in cultural practices (Humanities and Cultural Practice)
- Ethically engaged citizens and logical thinkers (Ethics)
- Effective interpreters of scientific results and critical analysts of claims about the natural world (Natural Sciences)
- Analytical and flexible thinkers and life-long learners (E-Series)
- Clear, creative, and convincing communicators ("W" [State-Mandated Writing])
- Critical thinkers, creative users of knowledge, and independent learners (Scholarship in Practice and Formative Experience)
- Culturally conscious participants in a global community (Cross-Cultural Studies)
- Culturally literate members of a society (Diversity in Western Experience)
- Skilled users of discipline-appropriate technologies (Computer Competency)
- Flexible and proficient oral communicators (Oral Communication Competency)
- Flexible and proficient writers for professional purposes (Upper-Division Writing).

Statewide Requirements

College-Level Communication and Computation Requirement

The State of Florida mandates minimum communication and computation skills for all students in Florida public institutions of higher education. The Statewide General Education Core and the University-wide requirements are designed to meet these requirements. The statewide graduation requirements of these rules follow.

Students will satisfy the requirements of this rule by completing, with a grade of "C–" or higher in each course, the General Education requirements in Quantitative and Logical Thinking, English Composition, and two other approved courses that require college-level writing for a total of six additional writing credits. The six additional writing credits may be fulfilled through successful completion of approved "W" (State-Mandated Writing) or E-Series courses. These requirements must be completed prior to receipt of an Associate of Arts degree from Florida State University.

Credit by Examination. A student shall be allowed to partially satisfy the State mandates for communication and computation by earning academic credit for approved Quantitative and Logical Thinking, English Composition, or "W" (State-Mandated Writing) coursework with a passing score on an appropriate AP, IB, AICE or CLEP examination. Refer to the AP, IB, AICE, and CLEP Tables in the "Academic Regulations and Procedures" chapter of this *General Bulletin* for college course equivalents and credits earned. Students will still be required to take ENC 2135 (or an approved 2000-level ENC composition course) to meet FSU requirements for English Composition and General Education.

Transfer Credits or Correspondence Credits. Students transferring to Florida State University who have been certified by Florida State University as having completed the AA degree from a Florida public university, state college, community college, or other college with which Florida State University maintains an official articulation agreement are deemed to have satisfied the State mandates for communication and computation and Florida State University's General Education requirements.

Students transferring from other institutions that come under the provision of these State mandates, but who have not received the AA degree will be deemed to have satisfied the State mandates for General Education if the previous institution indicates, by notation on the transcript or by some other form of written certification, that the student has satisfied these State mandates before leaving that institution.

Transferring students who do not fall into either of the above categories will be required to satisfy Florida State University's plan for State mandates.

Statewide General Education Core

The State of Florida Statute 1007.25 regarding General Education was revised in 2012 and again in 2013 to "improve articulation and reduce excess hours" for students entering the State University System (SUS) and Florida College System (FCS). Information on the statute, the implementation process, and the decisions made is posted on the official Web site at *http://www.fldoe.org/policy/articulation/general-edu-core-course-options.stml*.

The Statewide General Education Core requirements apply to students initially entering the SUS or FCS in the 2015-2016 academic year and thereafter. Fifteen (three credit hours from each category) of the thirty-six General Education credits must be earned from the five Statewide General Education Core requirement categories (at FSU, these are: English Composition, Quantitative and Logical Thinking, Social Sciences/History, Humanities and Cultural Practice/Ethics, and Natural Sciences). All SUS and FCS institutions must accept these courses for transfer credit, but no institution must offer all courses.

Civic Literacy

Students first entering any Florida College System institution or State University System institution as degree-seeking undergraduates in the 2018-2019 school year and thereafter must demonstrate competency in civic literacy prior to receipt of the baccalaureate degree. This includes transfer students and students seeking a second bachelor's degree who began as degree-seeking undergraduates at any FCS or SUS institution in the 2018-2019 school year or thereafter.

Students may satisfy the state of Florida's Civic Literacy requirement by: (1) completing either POS 1041, American Government: National, or AMH 2020, History of the United States Since 1877, with a grade of "C–" or higher; (2) receiving credit for either POS 1041 or AMH 2020 through completion of one or more of the following: Advanced Placement Government and Politics: United States exam with a score of 3 or more, Advanced Placement United States History exam with a score of 4 or more, or CLEP American Government exam with a score of 50 or more; or (3) obtaining a score of 60 out of 100 on the U.S. Citizenship and Immigration Services Naturalization Test administered by a Florida College or University. This exam is administered at no cost at the Testing Center at Florida State University. Visit *http://liberalstudies.fsu.edu/civic-literacy.html* for the most recent guidance on meeting the Civic Literacy requirement.

Liberal Studies for the 21st Century General Education Requirements

Satisfactory completion (a minimum adjusted grade point average of 2.0 on all courses used for General Education) of thirty-six semester hours of Florida State University's General Education courses within the *Liberal Studies for the 21st Century* program, as follows:

Quantitative and Logical Thinking: Students must complete a total of six semester hours in this area, of which at least three semester hours must be chosen from the Statewide Core list. At least three of the six hours in this area must be in the Department of Mathematics. Students must earn a "C–" or higher in these courses.

English Composition: Students must complete a total of six semester hours in this area, three of which must be chosen from the Statewide

Core list (ENC 1101). The additional hours must be earned through ENC 2135 Research, Genre, and Context (or an approved 2000-level composition course with an ENC prefix). Students must earn a "C–" or higher in these courses.

Social Sciences/History: Students must complete at least six semester hours in the combined area of Social Sciences and History, of which three semester hours must be chosen from the Statewide Core list. Students must complete at least one Social Sciences course and one History course.

Humanities and Cultural Practice/Ethics: Students must complete at least six semester hours in the combined area of Humanities and Cultural Practice and Ethics, of which at least three semester hours must be chosen from the combined Statewide Core requirement list. Students must complete at least one Humanities and Cultural Practice course and one Ethics course.

Natural Sciences: Students must complete six semester hours in this area, of which at least three semester hours must be chosen from the Statewide Core requirement list. **Note:** All students must complete at least one semester hour in a Natural Sciences laboratory course as a graduation requirement (see below).

Additional Liberal Studies General Education Hours: Students must complete a minimum of six additional hours of Liberal Studies courses. These six additional hours may be selected from the lists of approved General Education courses.

Note: In order to uphold the policy that students may take a 1000 to 3000-level Scholarship in Practice course to meet one of their General Education Electives, there is one minor exception to the policy limiting the number of Social Sciences, History, or Natural Sciences that can count to meet the elective. Specifically, if students meet three hours of the General Education Elective requirement with a Social Sciences, History, or Natural Sciences course and also take a Scholarship in Practice course that is approved for that same General Education areas, the course will count as a General Education Elective due to the Scholarship in Practice designation.

E-Series: Students must complete at least one General Education course that, in addition to the relevant area designation, is also designated as a three-credit E-Series course. All E-Series courses count toward the "W" (State-Mandated Writing) requirement. Therefore, a grade of "C–"or higher is required to meet the E-Series requirement and the state mandates for college-level writing.

Liberal Studies for the 21st Century University-Wide Requirements

Satisfactory completion of University-wide graduation requirements as follows:

"W" (State-Mandated Writing) and E-Series: In addition to the six credits required for English Composition, students must complete two three-credit courses that meet state mandates for college-level writing. These six additional writing credits may be fulfilled through successful completion of approved "W" (State-Mandated Writing) or E-Series. Courses must be completed with a grade of "C–" or higher to satisfy the State-Mandated Writing requirement.

Scholarly and Formative Experiences: Students must complete one Scholarship in Practice course and one approved Formative Experience prior to the awarding of a bachelor's degree with the following exceptions: (1) students who have completed an AA degree from an articulated institution (including those who have completed a high school AA degree from an articulated institution) and (2) transfer students who enter the University with sixty or more credit hours will only be required to complete either one Scholarship in Practice course or one approved Formative Experience. A second Scholarship in Practice course may substitute for the Formative Experience.

Diversity Requirement: Students must complete at least one Cross-Cultural Studies (x) course and one Diversity in Western Experience (y) course. Both Diversity courses must be completed with a grade of "C–" or higher.

Natural Sciences Laboratory Requirement: Students must complete at least one credit hour in a Natural Sciences laboratory course with a grade of "C–" or higher.

Oral Communication Competency Requirement: Students must complete at least one course designated as meeting the Oral Communication Competency Requirement with a grade of "C–" or higher.

Computer Competency Requirement: Students must complete at least one course designated as meeting the Computer Competency Requirement with a grade of "C–" or higher.

Upper-Division Writing Requirement: Students must complete at least one course designated as meeting the Upper-Division Writing Requirement with a grade of "C–" or higher.

Liberal Studies for the 21st Century

Academic Policies

The General Education requirements must be met by completion of appropriate coursework or by combination of coursework and credit by examination within the limits set below:

1. **Credit by Examination.** A maximum of thirty semester hours of credit earned through examination may be applied to the General Education requirements.
2. **Coursework.** An overall 2.0 average or higher is required for coursework used to satisfy the General Education requirements.
3. To satisfy state mandates and University-wide requirements, students must also earn a grade of "C–" or higher in each of the courses used to fulfill the General Education requirements in Quantitative and Logical Thinking, English Composition, and two approved courses that require college-level writing. These two additional college-level writing courses may be fulfilled through successful completion of approved "W" (State-Mandated Writing) or E-Series courses. Students with an AA degree or General Education Statement from a Florida public university, state college, community college, or other colleges with which Florida State University maintains an official articulation agreement are exempt from the state mandates for college-level writing.
4. Courses listed as "directed individual study" (DIS), "senior honors thesis," or "senior seminar" cannot apply to the General Education requirements.
5. No courses taken on a satisfactory/unsatisfactory (S/U) basis may apply to the Liberal Studies requirement, with the exception that a single course that counts as a designated Formative Experience may be awarded an S/U grade.
6. A student who transfers to Florida State University from a Florida public community/state college or other articulated institution will be deemed to have satisfied the University's General Education requirement if all General Education requirements stipulated by the community/state college or other articulated institution have been met and the student's transcript has been so marked.
7. If a course taken at FSU was approved for Liberal Studies credit at the time a course is completed, it will count for Liberal Studies credit, even if the course was not listed as a Liberal Studies course in the *General Bulletin* under which the student entered.

Students should check departmental curriculum listings to determine prerequisites and potential course duplications prior to taking courses. In addition, students may search for current Liberal Studies listings here: *http://liberalstudies.fsu.edu*. Finally, it is important to note that designations and approved courses may change periodically. An up-to-date listing of designations can be found on the Liberal Studies website and all appropriate designations are indicated in the course syllabus for individual courses.

Note: Some students will be required to take preparatory coursework prior to enrollment in Quantitative and Logical Thinking and/or English Composition courses. See 'Required Preparatory Courses' in the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Liberal Studies for the 21st Century Curriculum

Courses within the Liberal Studies curriculum are listed below by area. These lists are subject to change. For the most recent list of courses, see the Liberal Studies Web site at: *http://liberalstudies.fsu.edu*.

Symbol Legend

C Stands for combined lecture and laboratory

L Stands for laboratory

r Stands for "repeatable" and indicates that the course may be taken more than once

x Denotes a course that meets the Cross-Cultural Studies requirements

y Denotes a course that meets the Diversity in Western Experience requirements

# Indicates that the course has a credit limit and only one of these courses will earn credit towards meeting the Liberal Studies requirements

s Denotes a course that meets the Scholarship in Practice requirements

w Denotes a course that meets the State-Mandated Writing requirement

General Education Curriculum

Quantitative and Logical Thinking

Students must complete (or be exempted from with credit) a total of at least six semester hours in Quantitative and Logical Thinking, of which at least three semester hours must be chosen from the Statewide Core requirement list for mathematics (see Statewide Core requirement list). Of those six required hours, three of those credit hours must be in the Department of Mathematics and three additional credit hours must be from a list approved by the Liberal Studies Coordinating and Policy Committee and maintained by the Office of Undergraduate Studies. Students must complete their first Quantitative and Logical Thinking course by the time they have attempted thirty hours, which includes any credit hours earned through acceleration (i.e., AP, IB, Dual Enrollment, etc.). Students must complete or be registered for their second Quantitative and Logical Thinking course by the time they have attempted forty hours. All six semester hours of the Quantitative and Logical Thinking General Education requirement should be completed by the time the student earns fifty-two hours. All courses used to satisfy this requirement must be completed with a grade of "C–" or higher.

All incoming freshman students who intend to register for College Algebra (MAC 1105), Analytic Trigonometry (MAC 1114), Pre-Calculus Algebra (MAC 1140), Calculus with Analytical Geometry I (MAC 2311), Calculus with Analytical Geometry II (MAC 2312), or Calculus for Business (MAC 2233) as their first mathematics course at FSU (in their first semester or subsequent semesters) will be required to take the ALEKS placement exam, regardless of SAT/ACT or AP/IB/AICE/CLEP test scores. Students who bring in dual enrollment credit of a "C-" or better in a prerequisite course for one of the courses listed above are not required to take the ALEKS exam. Detailed information about taking the ALEKS placement exam can be found on the Department of Mathematics Web site: *http://www.math.fsu.edu/~bellenot/ALEKS/*.

Statewide Core Courses:

MAC 1105 College Algebra (3)
MAC 2311 Calculus with Analytic Geometry I (4)
MGF 1106 Mathematics for Liberal Arts I (3)
MGF 1107 Topics in Practical Finite Mathematics (3)
STA 2023 Fundamental Business Statistics (3)

Note: Any student who successfully completes a mathematics course for which one of the General Education Core course options in mathematics is a direct prerequisite shall be considered to have completed the Statewide Core mathematics requirement.

Additional Quantitative and Logical Thinking Coursework

IDS 2400 Understanding Uncertainty: Games of Skill and Chance (3)
IDS 2401 Personally Relevant Mathematics (3)
IDS 2402 Mathematics for Civic Engagement (3)
IDS 3358 Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3)
ISC 1057 Computational Thinking (3)
MAC 1114 Analytic Trigonometry (2)
MAC 1140 Precalculus Algebra (3)
MAC 1147 Precalculus Algebra/Trigonometry (5)
MAC 2233 Calculus for Business (3)
MAC 2312 Calculus with Analytic Geometry II (4)
MAC 2313 Calculus with Analytic Geometry III (5)
PHI 2100 Reasoning and Critical Thinking (3)
STA 1013 Statistics through Example (3)
STA 1220s In My Opinion: Introduction to Designing, Conducting and Analyzing Surveys (3)
STA 2122 Introduction to Applied Statistics (3)
STA 2171 Statistics for Biology (4)

English Composition

Students must complete (or be exempted from with credit) a total of at least six semester hours in English Composition, which shall include ENC 1101 (which meets the Statewide Core requirement) and ENC 2135. All students shall complete the required English Composition courses by the time they have attempted thirty credit hours, which includes any credit hours earned through acceleration (i.e., AP, IB, Dual Enrollment, etc.) or must show an appropriate exemption, as approved by the Faculty Senate, from six semester hours of English Composition courses. The second required course in the English Composition sequence, ENC 2135, provides students a foundation for upper-division writing in the major as well as essential competencies for careers in all fields. Both courses used to satisfy this requirement must be completed with a grade of "C–" or higher.

Statewide Core Course:

ENC 1101 Freshman Composition and Rhetoric (3)

Note: Any student who successfully completes a course with an ENC prefix for which ENC 1101 is a direct prerequisite shall be considered to have completed the Statewide Core communication requirement.

Additional English Composition Coursework

ENC 2135 Research, Genre, and Context (3)

Social Sciences/History

Students must complete six semester hours in the combined area of Social Sciences and History, of which at least three semester hours will be chosen from the combined Statewide Core requirement list. Students must complete at least one Social Sciences course and one History course.

Statewide Core Courses in Social Sciences:

ANT 2000x Introduction to Anthropology (3)
ECO 2013 Principles of Macroeconomics (3)
POS 1041 American Government: National (3)
PSY 2012 General Psychology (3)
SYG 1000 Introductory Sociology (3)

Statewide Core Course in History:

AMH 2020 A History of the United States Since 1877 (3)

Social Sciences

ANT 2410x Introduction to Cultural Anthropology (3)
ANT 2416x Childhood Around the World (3)
ANT 3212x Peoples of the World (3)
ANT 4241x Anthropology of Religion (3)
CCJ 2020 Introduction to Criminal Justice (3)
CCJ 3011 Criminology (3)
CCJ 4662 Minorities, Crime, and Social Policy (3)
CPO 2002 Introduction to Comparative Government and Politics (3)
ECO 2000 Introduction to Economics (3)
ECO 2023 Principles of Microeconomics (3)
FAD 2230 Family Relationships: A Life Span Development Approach (3)
GEA 1000x World Geography (3)
GEA 4405y Latin America (3)
GEO 1330 Environmental Science (3)
GEO 1400x Human Geography (3)
GEO 4421x Cultural Geography (3)
IDH 2117y Social (In)Equalities: Social Construction of Difference and Inequalities (3)
IDH 3702 Becoming and Being Leaders: Motivating Self and Others (3)
IDS 2180s Dead Cities (3)
IDS 2227 Sustainable Society (3)
IDS 2292 Communication and Dance (3)
IDS 2322r Sexual Health in the Modern World (3)
IDS 2323y Central American Cinema (3)
IDS 2339 The Boundaries Between Us: Exploring Racial Inequality in the U.S. (3)
IDS 2341 Relationship Status: It's Complicated–Understanding and Influencing Intimate Relationships (3)
IDS 2370x Festivals: Artisanship, Satire, and Fire (3)
IDS 2390 Public Opinion and American Democracy (3)

IDS 2391 Why is Good Politics Not Good Economics? (3)
IDS 2393 The Hunger Games Trilogy: Collective Action and Social Movements (3)
IDS 2431x Thinking Beyond Ourselves: Global Perspectives (3)
IDS 2432 Political Participation in the 21st Century: From Indigenous Communities to On-line Democracy (3)
IDS 2471 Glaciers, Geysers, and Glades: Exploring U.S. National Parks (3)
IDS 2472 Freshman Seminar (3)
IDS 2511 21st Century Literacies (3)
IDS 2651s Language, Body, Mind and World (3)
IDS 2683 Is Google Making Us Stupid? The Unintended Consequences of Information Technology (3)
IDS 3137 Politics of Reproduction (3)
IDS 3336y Great Britain? Geography, Imperialism, Industry, and Culture (3)
IDS 3342 Boomers and Millennials: Changing Generations (3)
IDS 3365x Global Conflicts: Analysis and Resolution (3)
IDS 3430 Sociology of Hip Hop Culture (3)
IDS 3433 Modern Death (3)
IDS 3435 "Please Please Me": Anglo-American Youth Culture from the 1950's to the Present (3)
IDS 3512y Examining the Educational Achievement Gap (3)
INS 2912sw Developing Global Citizens: Global Issues in Theory and Practice (3)
LIS 3103 Information and Society (3)
SYD 2740sy Sociology of Law and Hispanics (3)
SYD 3800y Sociology of Sex and Gender (3)
SYD 4700y Race and Minority Group Relations (3)
SYG 2010y Social Problems (3)
SYO 3100 Families and Social Change (3)
SYO 3200y Sociology of Religion (3)
URS 1006x World Cities: Quality of Life (3)

History

AMH 2010w The History of the United States to 1877 (3)
AMH 2091yw The African-American Experience in the United States (3)
AMH 2095yw American Indians in the United States (3)
AMH 2096yw Black Women in America (3)
AMH 2097yw Nationality, Race, and Ethnicity in the United States (3)
AMH 2583y The Seminoles and the Southeastern Indians (3)
ANT 3133 Introduction to Underwater Archaeology (3)
ANT 3141x World Prehistory (3)
ASH 1044xw Middle Eastern History and Civilization (3)
ASH 3100xw History of Asia (3)
ASH 3230rs Middle East Research: An Interdisciplinary Seminar (3–6)
CLA 2010sxw Peoples of the Roman World (3)
CLA 2110sw Debates about the Past: Greek Civilization, History and Culture (3)
CLA 2123sw Debates about the Past: Roman Civilization, History and Culture (3)
CLA 3430w History of Ancient Greece (3)
CLT 2049 Medical Terminology (3)
EUH 2000w Ancient and Medieval Civilizations (3)
EUH 3205xw 19th-Century Europe (3)
EUH 3530w England, the Empire and the Commonwealth (3)
HIS 2050sw The Historian's Craft (3)
HIS 2370s Interpreting Native America (3)
HIS 3205yw LGBTQ History (3)
HIS 3464yw History of Science (3)
HIS 3491yw Medicine and Society (3)
HIS 3505 Perspectives on Science and Mathematics (3)
IDS 2156 Environment and Society (3)
IDS 2196 History of American Popular Culture, 1850-Present (3)
IDS 2199 The American GI in War and Peace in World War II (3)
IDS 2376 Who Do the British Think They Are? (3)
IDS 2410 Citizenship and Debate: Models from the Ancient World (3)
IDS 2411 The Italian Mafia from Corleone to the Globalized World (3)
IDS 2412 (Re)Imagining Florida: From Spanish Colonialism to Today (3)
IDS 2413 Fight the Power: Protesting with Song in America: 20th Century versus 21st Century (3)
IDS 2414 Making Chief Osceola (3)
IDS 2417 Defining Moments and Identities: From the Persian Wars to September 11th (3)
IDS 2681s Digital Microhistory Lab (3)
IDS 3193y Ancient Sexualities and Modern Sexual Politics (3)
IDS 3198 Terrorism in Historical Perspective (3)
IDS 3415 Guns, Drugs, and Slaves: The History of Trafficking in the Modern World (3)
IDS 3416 Ethics and Empire in the Roman World (3)
IDS 2420x Heretics, Rebels and Militants in the Islamic World (3)
LAH 1093xw Latin America: A Cross-Cultural History (3)
MUH 3211w Survey of Music History–Antiquity to 1750 (3)
MUH 3212 Survey of Music History–1750 to Present (3)
REL 2121yw Religion in the United States (3)
REL 3128r Topics in Religion in the Americas (3)
REL 3155 Psychology in American Religious History (3)
REL 3160 Religion and Science (3)
WOH 1023xw The Modern World to 1815 (3)
WOH 1030xw The Modern World Since 1815 (3)
WOH 2202 Mortal Combat: Eurasian Worlds of War Since 1200 (3)

Humanities and Cultural Practice/Ethics

Students must complete six semester hours in the combined area of Humanities and Cultural Practices and Ethics, of which at least three semester hours must be chosen from the combined Statewide Core requirement list. Students must complete at least one Humanities and Cultural Practice course and one Ethics course.

Statewide Core Courses in the Humanities and Cultural Practice:

ARH 2000 Art, Architecture, and Artistic Vision (3)
HUM 2020 The Art of Being Human: Examining the Human Condition Through Literature, Art and Film (3)
LIT 2000 Introduction to Literature (3)
MUL 2010 Music Literature, Listening, and Understanding (3)
THE 2000y Introduction to Theatre (3)

Statewide Core Courses in Ethics:

PHI 2010 Introduction to Philosophy (3)

Humanities and Cultural Practice:

AML 3311w Major Figures in American Literature (3)
ARH 2050w History and Criticism of Art I (3)
ARH 2051w History and Criticism of Art II (3)
ARH 2090sxw Great Discoveries in World Archaeology (3)
ARH 3572x History of Islamic Art (3)
ART 2003Csw Contemporary Art Scholarship and Practice (3)
CHT 3123rx Pre-Modern Chinese Literature and Culture (3)
CHT 3124rx Modern Chinese Literature (3)
CHT 3391rx Chinese Cinema and Culture (3)
CHT 3392rx Writing Women in Pre-Modern China (3)
CLA 3500s Sports in Antiquity: Olympians, Gladiators, and Superstars (3)
CLA 3501yw Gender and Society in Ancient Greece (3)
CLT 2049 Medical Terminology (3)
CLT 3370sw Classical Mythology (3)
CLT 3378sxw Ancient Mythology, East and West (3)
CLT 3510syw The Ancient World in Film (3)
DAN 2100sw Dance Appreciation (3)
#DAN 3144xw Cultural Perspectives on Dance (3)

OR

#DAN 3145 Classical Perspectives on Dance (3)
DAN 3185yw African-American Perspectives on Dance (3)

FIL 2001s Introduction to Cinema Studies: Analysis and Practice (3)
FOW 3240yw Literature and Sexuality (3)
FRT 3520rx French and Francophone Cinema (3)
FRT 3561yw French Women Writers (3)
FRW 3100s Survey of French Literature I: Early-Modern France (3)
FRW 3101s Survey of French Literature: Modern France (3)
GET 3130yw Masterpieces of German Literature in Translation: 19th and 20th Centuries (3)
GET 3524ry German Cinema (3)
HUM 2210sw Humanities: Pre-History to Late Antiquity (3)
HUM 2235sw Humanities: From the Renaissance to the Enlightenment (3)
HUM 2250sw Humanities: 18th-Century Romanticism to Postmodernism (3)
HUM 2742 Walking in London (3)
HUM 3123x Irish Culture: An Introduction (3)
HUM 3321syw Multicultural Dimensions of Film and 20th-Century Culture (3)
IDS 2160x The Tourist Trap: The Good, the Bad, and the Ugly (3)
IDS 2166s Art as Propaganda: The Impact of Visual and Performing Arts on Western Society (3)
IDS 2170x Music in the World (3)
IDS 2171 Visualizing Music: Representing Music Through Images (3)
IDS 2173y A Social History of America's Popular Music (3)
IDS 2194 The Immigrant Experience in Contemporary America (3)
IDS 2291 Language Birth, Language Death (3)
IDS 2293 Dangerous Liaisons: Rape Myths and Violence in Literature, the Arts and Music (3)
IDS 2335x Central American Cinema (3)
IDS 2371 Music and Culture in London (3)
IDS 2372 Art Music in Contemporary Society (3)
IDS 2373 From Ballet to Beyonce: Gender and the Body in Dance and Pop Culture (3)
IDS 2374 Theory and Practice of the Encounter (3)
IDS 2375x Third World Cinema (3)
IDS 2394 Making Babies, Making Families: Adoption and Surrogacy in Literature, Film, and Public Debate (3)
IDS 2403 Creative Inquiry (3)
IDS 2451 From Page to Screen: The Arts and Politics of Adaptation (3)
IDS 2452 Documentary Film, History, Theory, and Practice (3)
IDS 2453sx Reality and Illusion in World Cinema (3)
IDS 2454y Fantasy Girls: Philosophical Examinations of Women and Girls in Fantasy and Science Fiction (3)
IDS 2455 The Role of the Public Intellectual (3)
IDS 2456x Who is Human? Culture, Gender and Human Rights (3)
IDS 2460x Global Perspectives: Communication (3)
IDS 2461x Music and International Human Rights (3)
IDS 2462 Human Nature: Modern and Contemporary Perspectives (3)
IDS 2463 Writing/s about Music (3)
IDS 2464 Crossing the Atlantic: Lorca in America, Hemingway in Spain (3)
IDS 2672sy Music and Film (3)
IDS 2673y Popular Music in Literature (3)
IDS 2674s Animation and Identity (3)
IDS 2675 Philosophy and Film (3)
IDS 2676 Understanding America: Hemingway in a World of Discredited Values and Traditions (3)
IDS 2677y Female Friendship Alliances in Shakespeare (3)
IDS 2678 Apocalypse: The End of the World in the Arts (3)
IDS 2679 Need and Greed (Is Money the Root of All Evil?) (3)
IDS 2680 Reading, Writing, and Speaking in the Digital Age (3)
IDS 3140 Technologies of Memory from Ancient Greece to Today (3)
IDS 3167 Contemporary Art as a Mirror (3)
IDS 3168s Walt Disney's America (3)
IDS 3169s Art and the Environment (3)
IDS 3188x German Society Through Film: The Legacy of Nazi Crimes Against Humanity (3)
IDS 3195 Vistas on Florence: From Dante to the Big Flood of 1966 (3)
IDS 3197 Responses to the Holocaust (3)
IDS 3305 Music and Literature (3)
IDS 3312 Robots, Monsters, Avatars: Technology and the (Post-)Human Condition (3)
IDS 3317 Demons, the Antichrist, and Satan (3)
IDS 3320 Human Nature: The War Within (3)
IDS 3330x The Culture in the Cuisine: The Food of Italy (3)
IDS 3434 How Houses Build People: Ancient and Modern Domestic Life (3)
IDS 3450x Through an Arabic Lens: The Intersection of Film and Culture (3)
IDS 3457 The Reel Middle Ages: Medieval Literature and Film (3)
IDS 3458sy Lions and Tiger and Bears, Oh My! Multicultural Dimensions of American Cinema (3)
IDS 3459x Cinema Gone Global (3)
IDS 3466x India Through Bollywood Film (3)
IDS 3648 Beethoven in America (3)
IDS 3671 Science Fiction, Dystopia, Fate, and the Problem of Evil (3)
IDS 3685 Promoting Art Ethically in Social Media: Screening Truth from Fiction (3)
IND 2219 Design and the Human Experience (3)
ITT 3430yw Masterpieces of Italian Literature and Culture in Translation (3)
ITT 3500yw Italian Culture and Civilization: From Origins to the Age of Romanticism (3)
ITT 3501yw Modern Italian Culture: From the Unification to the Present (3)
ITT 3520yw The Italian-American Experience in Literature and Film (3)
ITT 3523yw Italian Cinema (3)
LIT 3024x Perspectives on the Short Story (3)
LIT 3383yw Women in Literature (3)
LIT 3438rw Literature and Medicine (3)
MUH 2019y Modern Popular Music (3)
MUH 2051x Music in World Cultures (3)
MUH 2512x Music in World Cultures (2). (For music majors.)
MUH 3053yw American Roots Music (3)
MUL 2110 Survey of Music Literature (2)
MUT 1005s The Art of Songwriting (3)
MUT 2116s Music Theory III (3)
MUT 2117 Music Theory IV (3)
REL 1300xw Introduction to World Religions (3)
REL 2210yw Introduction to the Old Testament (3)
REL 2240yw Introduction to the New Testament (3)
REL 2315x Religions of South Asia (3)
REL 2350x Religions of East Asia (3)
REL 3112w Religion and 20th Century Fantasy Literature (3)
REL 3142 Religion, the Self, and Society (3)
REL 3145xw Gender and Religion (3)
REL 3209s The Dead Sea Scrolls (3)
REL 3224 The Hebrew Prophets (3)
REL 3293r Topics in Biblical Studies (3)
REL 3333x Ramayana in Indian Culture and Beyond (3)
REL 3337x Goddesses, Women, and Power in Hinduism (3)
REL 3340x The Buddhist Tradition (3)
REL 3345x Chan/Zen Buddhism (3)
REL 3351x Japanese Religions (3)
REL 3358x Tibetan and Himalayan Religions (3)
REL 3363y Islamic Traditions (3)
REL 3367y Islamic Traditions II: Islam up to the Modern World (3)
REL 3370x Religion in Africa (3)
REL 3505w The Christian Tradition (3)
REL 3541s American Protestant Thought in Historical Context (3)
REL 3607yw The Jewish Tradition (3)
REL 3935rx Topics in Buddhism (3)
REL 3936r Special Topics in Religion (3)

REL 4366 Seminar on Shi'ite Islam (3)
REL 4393 Islam in North America (3)
RUT 3110y Russian Literature in English Translation (3)
RUT 3514y Russian Folklore and Fairy Tales (3)
RUT 3523ry Russian Cinema (3)
SLL 3510x The Slavic Vampire (3)
SPT 3130xw Latin American Literature in Translation (3)
SPT 3391x Hispanic Cinema (3)
SPT 3503x Introduction to Hispanic Culture Analysis (3)
THE 3214s World Theatre History II (3)

Ethics:

CIS 3250 Ethics and Computer Science (3)
HPS 3320yw Screening the Scientific Life: Cinema and the Cultural Image of Science (3)
IDS 2113 Know Thyself: A Philosophical Investigation of Self-Knowledge (3)
IDS 2129x When Culture and Business Collide: Communication in an International Context (3)
IDS 2144 Information Ethics for the 21st Century (3)
IDS 2165x Intercultural Communication, Business, and Sustainability: Writing for "Green" Everywhere (3)
IDS 2293 Dangerous Liaisons: Rape Myths and Violence in Literature, the Arts, and Music (3)
IDS 2316 World Without God? (3)
IDS 2375x Third World Cinema (3)
IDS 2461x Music and Human International Rights (3)
IDS 2490 Social Responsibility (Rhetorically Speaking) (3)
IDS 2491 Communication Matters: Personal Responsibility in Public Speaking (3)
IDS 2492 Sport: Place, Competition, and Fairness (3)
IDS 2510 Questioning What We Know: Teaching and Learning Mathematics and Science in the 21st Century (3)
IDS 2611 Classical Philosophy of India (3)
IDS 3164s Media, Culture, and the Environment (3)
IDS 3179 Ethics Through Art (3)
IDS 3188x German Society through Film: The Legacy of Nazi Crimes Against Humanity (3)
IDS 3303 The Animal in Ancient and Modern Thought (3)
IDS 3312 Robots, Monsters, Avatars: Technology and the (Post-) Human Condition (3)
IDS 3340 Who Owns the Past: Perspectives on Ethics in Anthropology (3)
IDS 3364 Yesses and Noes: The Ethics of Consent (3)
IDS 3392 Just Torture (3)
IDS 3416 Ethics and Empire in the Roman World (3)
IDS 3433 Modern Death (3)
IDS 3495 Sport: Conscience Meets Commerce (3)
IDS 3685 Promoting Art Ethically in Social Media: Separating Truth from Fiction (3)
ITT 3114 Dante's Inferno (3)
LIT 3438rw Literature and Medicine (3)
PAD 3003 Public Administration in American Society (3)
PHI 2620 Environmental Ethics (3)
PHI 2630 Ethical Issues and Life Choices (3)
PHI 2635yw Bioethics (3)
PHM 2121y Philosophy of Race, Class and Gender (3)
PHM 2300x Introduction to Political Philosophy (3)
REL 3152x Religion, Race and Ethnicity (3)
REL 3170xw Religious Ethics and Moral Problems (3)
REL 3171r Topics in Ethics (3)
REL 3180s Religion and Bioethics (3)
REL 3431 Critics of Religion (3)
SOW 3933 Seminar in Global Social Work Ethics (3)

Natural Sciences

Students must complete a minimum of six semester hours, of which at least three semester hours must be chosen from the Statewide Core requirement list.
Note: All students must complete at least one credit hour in a Natural Sciences laboratory course as a graduation requirement.

Statewide Core Courses in the Natural Sciences:

AST 1002 Planets, Stars, and Galaxies (3)
BSC 1005 General Biology for Nonmajors (3)
BSC 2010 Biological Science I (3). (For science majors.)
BSC 2085 Anatomy and Physiology I (3)
CHM 1020C Chemistry for Liberal Studies (4)
CHM 1045 General Chemistry I (3). (For science majors.)
ESC 1000 Introductory Earth Science (3)
EVR 1001 Introduction to Environmental Science (3)
PHY 1020 Physics and Technology for Future Presidents (3)
PHY 2048C General Physics A (5). (For science majors.)
PHY 2053C College Physics A (4). (For science majors.)

Note: Any student who successfully completes a Natural Science course for which one of the General Education core course options in Natural Sciences is a direct prerequisite shall be considered to have completed the Natural Sciences Core requirement. The direct prerequisite must be in the same subject area for the course to count and the subject area is determined according to the institution or SCNS catalog.

Natural Sciences

ANT 2100 Introduction to Archaeology (3)
ANT 2100L Introduction to Archaeology Laboratory (1)
ANT 2301 Evolution of Human Sexuality (3)
ANT 2511 Introduction to Physical Anthropology and Prehistory (3)
ANT 2511L Introduction to Physical Anthropology and Prehistory Laboratory (1)
ANT 4468 Bones, Bodies and Disease (3)
AST 1002L Planets, Stars, and Galaxies Laboratory (1)
BSC 1005L General Biology Laboratory for Nonmajors (1)
BSC 1100 Natural History, Biodiversity, and the Growth of Evolutionary Thought (3)
BSC 2010L Biological Science I Laboratory (1). (For science majors.)
BSC 2011 Biological Science II (3). (For science majors.)
BSC 2011Ls Biological Science II Laboratory (1). (For science majors.)
BSC 2085L Anatomy and Physiology I Laboratory (1). (For science majors.)
CHM 1045L General Chemistry Laboratory (1). (For science majors.)
CHM 1046 General Chemistry II (3)
CHM 1046L General Chemistry II Laboratory (1). (For science majors.)
CHM 1050 Honors General Chemistry I (3). (For science majors.)
CHM 1050L Honors General Chemistry I Laboratory (1). (For science majors.)
CHM 1051 Honors General Chemistry II (3). (For science majors.)
CHM 1051L Honors General Chemistry II Laboratory (2). (For science majors.)
CHM 2047 One-Semester General Chemistry (3)
CHM 2047L One-Semester General Chemistry Laboratory (1)
CHM 3217 One-Semester Organic Chemistry (3)
CHM 3217L One-Semester Organic Chemistry Laboratory (1)
CJE 3762 Forensic Science in Investigation (3)
CJE 3762L Forensic Science in Investigations Laboratory (1)
CLA 2810sxw Ancient Science for Non-Science Majors (3)
ESC 1000L Introductory Earth Science Laboratory (1)
EVR 1001L Introduction to Environmental Science Laboratory (1)
GLY 1000 Dynamic Earth (3)
GLY 1000L Dynamic Earth Laboratory (1)
GLY 1030 Environmental Issues in Geology (3)
GLY 1102 Dinosaurs and Disasters on an Evolving Earth (3)
GLY 2010C Physical Geology (4). (For science majors.)
HUN 1201 The Science of Nutrition (3)

IDS 2132 Busting Common Biological Myths (3)
IDS 2133 Trilobites to T. Rex: History of Life on Earth (3)
IDS 2134 Evolution, Medicine and Evidence (3)
IDS 2135 Genetics in Society (3)
IDS 2136 Biotechnology: Impact of Life and Science on Society (3)
IDS 2240 Sustainable Food and Water: Soil, Animals, Vegetables, and Grain (3)
IDS 2381 Chemistry in Art: From Pottery to Forgery (3)
IDS 2470 The Ecology of Food (3)
IDS 2473 Putting Science into Action: Field Methods in Plant Ecology (3)
IDS 2650 Thinking about Language: How Cognition and Language Interact (3)
IDS 3232 Living Green, Theory to Action (3)
IDS 3700 Broken Clocks and Disrupted Sleep: Impacts of Technology (3)
ISC 2003 Global Change: Its Scientific and Human Dimensions (3)
ISC 3523C Research Methods (3)
MET 1010 Introduction to the Atmosphere (3)
MET 1050 Natural Hazards and Disasters: From Hurricanes to Meteorites (3)
OCE 1001 Elementary Oceanography (3)
PHY 1020L Physics and Technology for Future Presidents Laboratory (1)
PHY 2049C General Physics B (5)
PSB 2000 Introduction to Brain and Behavior (3)
SPA 2001 Introduction to Communication Sciences and Disorders (3)

Note: Certain restrictions exist regarding the allotment of course credit for the chemistry and geology courses listed above. Students should refer to the course descriptions of each department for specific credit information before registering for these courses.

University-Wide Curriculum

"W" (State-Mandated Writing) and E-Series Courses

To satisfy the state writing mandates, students must complete two approved three-credit college-level writing courses beyond the six hours required for English Composition. These two additional college-level writing courses may be fulfilled through successful completion of "W" (State-Mandated Writing) or E-Series courses. Transfer students who entered the University without having completed the General Education requirements elsewhere or who have not completed an articulated AA degree must complete two approved courses that meet the State-Mandated Writing requirement. To fulfill the college-level writing requirement, students must earn a grade of at least a "C–" in the course, and also earn at least a "C–" average on the required writing assignments. If a student does not earn a "C–" average or higher on the required writing assignments, the student will not earn an overall grade of "C–" or higher in the course, no matter how well the student performs in the remaining portion of the course. Students with an AA degree or General Education Statement from a Florida public university, state college, community college, or other colleges with which Florida State University maintains an official articulation agreement are exempt from the state mandates for college-level writing.

Florida State University has developed E-Series courses that focus on broad questions that are relevant to humanity and our natural world and can be explored, examined, and experimented upon (thus, E-Series). E-Series courses are designed to foster critical thinking by allowing students to analyze persistent issues from multiple perspectives. All E-Series courses can count toward the "W" (State-Mandated Writing) requirement. To fulfill the college-level writing requirement, students must earn a grade of at least a "C-" in the course and also earn at least a "C-" average on the required writing assignments. If the student does not earn a "C-" average or higher on the required writing assignments, the students will not earn an overall grade of "C-" or higher in the course, no matter how well the student performs in the remaining portion of the course. This course may also fall into one of the core General Education and/or Scholarship in Practice areas. Check the Liberal Studies website for the most recent information and to find an approved list of E-Series courses: *http://liberalstudies.fsu.edu/*.

"W" Courses

AFA 2000w Introduction to the African-American Experience (3)
AFA 3101yw Theories of African American Studies (3)
AMH 2010w The History of the United States to 1877 (3)
AMH 2091yw The African-American Experience in the United States (3)
AMH 2095yw American Indians in the United States (3)
AMH 2096yw Black Women in America (3)
AMH 2097yw Nationality, Race, and Ethnicity in the United States (3)
AML 2600yw Introduction to African-American Literature (3)
AML 3041w American Authors Since 1875 (3)
AML 3311w Major Figures in American Literature (3)
AML 3630w Latino/a Literature in English (3)
ARH 2050w History and Criticism of Art I (3)
ARH 2051w History and Criticism of Art II (3)
ARH 2090sxw Great Discoveries in World Archaeology (3)
ARH 3130xw Survey of Greek Art and Archaeology (3)
ARH 3150w Art and Archaeology of Ancient Italy (3)
ART 2003Csw Contemporary Art Scholarship and Practice (3)
ASH 1044xw Middle Eastern History and Civilization (3)
ASH 3100w History of Asia (3)
CLA 2010sxw Peoples of the Roman World (3)
CLA 2110sw Debates about the Past: Greek Civilization, History, and Culture (3)
CLA 2123sw Debates about the Past: Roman Civilization, History, and Culture (3)
CLA 2810sxw Ancient Science for Non-Science Majors (3)
CLA 3430w History of Ancient Greece (3)
CLA 3501yw Gender and Society in Ancient Greece (3)
CLA 3502w Women, Children, and Slaves in Ancient Rome: The Roman Family (3)
CLT 3370sw Classical Mythology (3)
CLT 3378sxw Ancient Mythology, East and West (3)
CLT 3510syw The Ancient World in Film (3)
DAN 2100sw Dance Appreciation (3)
DAN 3144xw Cultural Perspectives on Dance (3)
ENL 2022w British Authors: Early Romantics to the Present (3)
ENL 3334w Introduction to Shakespeare (3)
EUH 2000w Ancient and Medieval Civilizations (3)
EUH 3205xw 19th-Century Europe (3)
EUH 3530w England, the Empire and Commonwealth (3)
FOW 3240yw Literature and Sexuality (3)
FRT 3561yw French Women Writers (3)
GET 3130yw Masterpieces of German Literature in Translation: 19th and 20th Centuries (3)
HIS 2050sw The Historian's Craft (3)
HIS 3205yw LGBTQ History (3)
HIS 3464yw History of Science (3)
HIS 3491yw Medicine and Society (3)
HPS 3320yw Screening the Scientific Life: Cinema and the Cultural Image of Science (3)
HUM 2210sw Humanities: Pre-History to Late Antiquity (3)
HUM 2235sw Humanities: From the Renaissance to the Enlightenment (3)
HUM 2250sw Humanities: 18th-Century Romanticism to Postmodernism (3)
HUM 3321syw Multicultural Dimensions of Film and 20th-Century Culture (3)
INS 2912sw Developing Global Citizens: Global Issues in Theory and Practice (3)
ITT 3430yw Masterpieces of Italian Literature and Culture in Translation (3)
ITT 3500yw Italian Culture and Civilization: From Origins to the Age of Romanticism (3)
ITT 3501yw Modern Italian Culture: From the Unification to the Present (3)
ITT 3520yw The Italian-American Experience in Literature and Film (3)
ITT 3523yw Italian Cinema (3)
JPT 3391rxw Japanese Film and Culture (3)
LAH 1093xw Latin America: A Cross-Cultural History (3)
LIT 2010w Introduction to Fiction (3)
LIT 2030w Introduction to Poetry (3)

LIT 2081w Contemporary Literature (3)
LIT 2230w Introduction to Global Literature in English (3)
LIT 3043w Modern Drama (3)
LIT 3383yw Women in Literature (3)
LIT 3438rw Literature and Medicine (3)
MUH 3053yw American Roots Music (3)
MUH 3211w Survey of Music History-Antiquity to 1750 (3)
PHH 3130w Plato and His Predecessors (3)
PHH 3140w Aristotle to Augustine (3)
PHH 3400w Modern Philosophy (3)
PHI 2635yw Bioethics (3)
PHM 3020w Philosophy of Sex (3)
REL 1300xw Introduction to World Religions (3)
REL 2121yw Religion in the United States (3)
REL 2210yw Introduction to the Old Testament (3)
REL 2240yw Introduction to the New Testament (3)
REL 3112w Religion and 20th Century Fantasy Literature (3)
REL 3145xw Gender and Religion (3)
REL 3170xw Religious Ethics and Moral Problems (3)
REL 3431w Critics of Religion (3)
REL 3505w The Christian Tradition (3)
REL 3607yw The Jewish Tradition (3)
SPT 3130xw Latin American Literature in Translation (3)
THE 3214sw World Theatre History II (3)
WHO 1023xw The Modern World to 1815 (3)
WOH 1030xw The Modern World Since 1815 (3)
WST 3251yw Women in Western Culture: Images and Realities (3)

Scholarly and Formative Experiences

To satisfy this requirement, students will be required to take one course from each of the two categories described below. All students are required to complete at least one Scholarship in Practice course and one approved Formative Experience, with the following exceptions: students who have completed an AA degree from an articulated institution (including those who have completed a high school AA degree from an articulated institution) and transfer students who enter the University with sixty or more credit hours are only required to complete either one Scholarship in Practice or one Formative Experience course.

The Scholarly and Formative Experiences requirement must be completed prior to the receipt of the baccalaureate degree.

Scholarship in Practice courses are classroom-based experiences that allow students to apply relevant areas of scholarship to an original project. A Scholarship in Practice course must be completed with a grade of "C–" or higher prior to the receipt of the baccalaureate degree. A Scholarship in Practice course at any level will count towards the graduation requirement.

Formative Experiences are a type of hands-on, high impact practice through which students engage in independent, immersive learning settings outside the classroom that are relevant to their educational, professional, and life goals. Student participation in Formative Experiences must be evaluated by an instructor of record (faculty or qualified staff). Formative Experiences must be completed with a grade of "C–" or higher (or an "S" if taken on an S/U basis) in an approved course or through successful completion of the Experience Recognition Program through the FSU Career Center prior to the receipt of the baccalaureate degree. Students may satisfy the Formative Experience requirement by completing a second Scholarship in Practice course. In order for a Scholarship in Practice course to fulfill the Formative Experience requirement, the student must earn a "C–" or higher.

Scholarship in Practice Courses

ADV 3823rs Advertising Team II (3)
ARE 4932rs Introduction to Arts Administration (3)
ARH 2090sxw Great Discoveries in World Archaeology (3)
ARH 4800rs Methods of Art History and Criticism (3)
ART 2003Csw Contemporary Art Scholarship and Practice (3)
ART 4851s BA: Exploring Opportunities in the Arts (3)
ART 4970s BFA Thesis Project and Exhibition (3)
ASH 3230rs Middle East Research: An Interdisciplinary Seminar (3-6)
AST 3721Ls Astrophysics Laboratory (2)
BCH 4053Ls General Biochemistry I Laboratory (3)
BSC 2011Ls Biological Science II Lab (1) (For science majors.) [**Note:** Only Scholarship in Practice if taken with BSC 2011]
CEN 4020s Software Engineering (3)
CGN 4802s Senior Design Project (3)
CJE 3617s Cold Case Investigations (3)
CLA 2010sxw Peoples of the Roman World (3)
CLA 2110sw Debates About Past: Greek Civilization, History and Culture (3)
CLA 2123sw Debates About Past: Roman Civilization, History and Culture (3)
CLA 2810sxw Ancient Science for Non-Science Majors (3)
CLA 3500s Sports in Antiquity: Olympians, Gladiators, and Superstars (3)
CLA 4935rs Seminar in Classical Civilization (3)
CLT 3370sw Classical Mythology (3)
CLT 3378sxw Ancient Mythology, East and West (3)
CLT 3510syw The Ancient World in Film (3)
COM 2740s Contemporary Issues in Communication (3)
COM 4905rs Directed Individual Study (1–3)
COM 4941rs Application of Instructional Methods (0–3)
CRW 3753s Writing Florida (3)
CRW 4120rs Fiction Workshop (3)
CRW 4320rs Poetry Workshop (3)
DAN 2100sw Dance Appreciation (3)
DAN 4971s Senior Capstone Experience (3)
ECH 4604s Chemical Engineering Process Design I (4)
ECH 4615s Chemical Engineering Process Design II (3)
EEL 4911Cs Senior Design Project I (3)
EEL 4914Cs Computer Engineering Senior Design Project II (3)
EEL 4915Cs Electrical Engineering Senior Design Project II (3)
EIN 4890s Industrial Engineering Senior Design Project (3)
EIN 4892s Industrial Engineering Senior Design Project II (3)
EML 4551Cs Senior Design Project I (3)
EML 4552Cs Senior Design Project II (3)
ENC 4311rs Advanced Article and Essay Workshop (3)
ENG 4910s Research in Renaissance Literature (3)
ENG 4934s Senior Seminar in Literature (3)
ENT 2630s The Themed Experience (3)
ENT 3607s Innovation by Design (3)
FIL 2001s Introduction to Cinema Studies: Analysis and Practice (3)
FRW 3100s Survey of French Literature I: Early-Modern (3)
FRW 3101s Survey of French Literature II: Modern France (3)
HIS 2050sw The Historian's Craft (3)
HIS 2370s Interpreting Native America (3)
HIS 4164s Digital History (3)
HIS 4935s Senior Seminar (3)
HUM 2210sw Humanities: Pre-History to Late Antiquity (3)
HUM 2235sw Humanities: From the Renaissance to the Enlightenment (3)
HUM 2250sw Humanities: 18th–Century Romanticism to Postmodernism (3)
HUM 3321syw Multicultural Dimensions of Film and 20th–Century Culture (3)
IDS 2128s The Lean Machine: The 21st Century Entrepreneur (3)
IDS 2141s Exploring Emerging Technologies (3)
IDS 2166s Art as Propaganda: The Impact of Visual and Performing Arts on Western Society (3)
IDS 2180s Dead Cities (3)
IDS 2321sy The Blindness Experience (3)
IDS 2453sx Reality and Illusion in World Cinema (3)
IDS 2494s Creating Experiences (3)
IDS 2651s Language, Body, Mind, and World (3)
IDS 2672sy Music and Film (3)
IDS 2674s Animation and Identity (3)
IDS 2681s Digital Microhistory Lab (3)
IDS 3121s Business Case Analysis and Solution Development (3)

IDS 3164s Media, Culture, and the Environment (3)
IDS 3168s Walt Disney's America (3)
IDS 3169s Art and the Environment (3)
IDS 3458sy Lions and Tigers and Bears, Oh My! Multicultural Dimensions of American Cinema (3)
IDS 3493s Empowering Health Consumers in the eHealth Era (3)
IDS 3496s Exploring the World of Sports (3)
IDS 3682s Technical Communication in the Information Age (3)
IHS 4901s Interdisciplinary Medical Sciences Capstone Course (3)
INS 2912sw Developing Global Citizens: Global Issues in Theory and Practice (3)
ISM 4545s Data Analytics and Mining for Business (3)
LDR 2101s Leadership Theory and Practice (3)
LDR 2160s Peer Leadership (3)
LDR 2162s Leadership in Groups and Communities (3)
LDR 2163s Emerging Leaders (3)
LDR 2213sx Leadership for Social Justice (3)
LDR 2290s Leadership and Sustainability in Action (3)
LDR 2560s Leadership in Film (3)
LDR 3215s Leadership and Change (3)
LDR 4105s Leadership and Complexity (3)
LDR 4404s Student Affairs Leadership (3)
LIS 3793s Information Architecture (3)
MMC 4200s Media Legalities (3)
MMC 4302s Comparative and International Media Studies (3)
MUO 4006rs Music Theatre Workshop (2)
MUT 1005s The Art of Songwriting (3)
MUT 2116s Music Theory III (3)
MUT 3574s Popular Music Analysis (3)
PHY 3802Ls Intermediate Laboratory (2)
PSY 3213Cs Research Methods in Psychology with Laboratory (4)
REL 3180s Religion and Bioethics (3)
REL 3209s The Dead Sea Scrolls (3)
REL 3541s American Protestant Thought in Historical Context (3)
REL 4044s What is Religion? What is Religious Studies? (3)
REL 4335s Modern Hinduism (3)
SOW 4522s Integrative Field Seminar (2)
SPA 4056s Clinical Methods (3)
SPW 3493sx Readings from Spanish America (3)
SPW 4774sx Cuba: Diaspora, Race, and Cultural Identity (3)
STA 1220s In My Opinion: Introduction to Designing, Conducting and Analyzing Surveys (3)
STA 3064s Introduction to Statistical Modeling with SAS (3)
SYD 2740sy Sociology of Law and Hispanics (3)
THE 3214s World Theatre History II (3)
TPA 4400s Theatre Management (3)

Formative Experience Courses

ACG 4941 Accounting Internship (3)
ACG 4970r Honors Thesis (1-6)
AFA 4940r African American Studies Internship (3-6)
ANT 4914r Honors Work (1-3)
ARA 4970r Honors Thesis (1-6)
ARH 4815r Honors Work in Art History (1-6)
ART 4943 Internship in Creative Art (1-12)
ART 4981r Honors Work (3)
ASN 4970r Honors Thesis (1-6)
CCJ 4909r Honors in Criminology (3)
CCJ 4940 Internship in Criminology (15)
CCJ 4942 Part Time Internship in Criminology (8)
CGN 4906r Honors Work in Civil and Environmental Engineering (1-6)
CJE 4710r Public Safety and Security Capstone (3)
CLA 4909r Honors Work (1-6)
COM 3951 Global Exchange Formative Experience (0)
COM 4909r Honors Work (1-6)
COM 4945r Communication Internship (1-12)
ECO 4934r Honors Work (1-3)
ECO 4941 Economics Internship (0-6)
EDE 4970r Honors Work (3)
EEL 4906r Honors Work in Electrical Engineering (1-6)
EEX 4941 Practicum in High Incidence Disabilities (1)
EIN 4934r Honors Thesis (3)
EML 4970r Honors Work (3)
ENC 4942r Internship in Editing (1-6)
ENG 3943r Kudzu Review Undergraduate Magazine (0-3)
ENG 4936r Honors Thesis (1-6)
ENT 4943 Entrepreneurship Internship (3)
ENT 4991r Honors Thesis (3)
EUS 4970r Honors Thesis (1-6)
FAD 4805 Practicum in Family and Child Sciences (6)
FAD 4910r Honors Work (3-6)
FIL 4973r BFA Thesis Production (1-15)
FIL 4975r Undergraduate Honors Thesis (1-6)
FIN 4941 Finance Internship (3)
FIN 4970r Honors Thesis (1-6)
FRE 4935r Honors Thesis (1-6)
GEB 4941r Business Internship (0-6)
GER 4935r Honors Thesis (1-6)
HEE 4912r Honors Work (3)
HFT 3941r Management Internship (1-12)
HFT 4970r Honors Thesis (1-6)
HIS 4936r Honors Work (1-6)
HIS 4944r Undergraduate History Internship (3)
HUN 4913r Honors Thesis (3-6)
IDS 2060 Global Engagement (1)
IDS 2920r UROP Colloquium (1)
IHS 4943 Medical Interpreter Practicum (9)
IND 4947r Internship (3)
IND 4970r Honors in the Major (3)
INR 4941r Internship (3-6)
ISC 4943r Practicum in Scientific Computing (3)
ISC 4971r Honors Thesis (3)
ISM 4941 Field Study in MIS (3)
ISM 4970r Honors Thesis (1-6)
ISS 4944r Internship (3-6)
ITA 4935r Honors Thesis (1-6)
LAE 4937r Honors Work (3)
LEI 4940r Internship in Recreation, Tourism and Events (15)
LDR 3263 Leadership Experience (3)
MAN 4941 Field Study in Management (1-3)
MAN 4970r Honors Thesis (1-6)
MAR 4941 Marketing Internship (3)
MAR 4970r Honors Thesis (3)
MET 4945r Meteorology Internship (1-9)
MUC 4950 Composition Senior Recital (0)
MUE 4092r Arts in Medicine Service (1-3)
MUE 4940 Internship in Music (12)
MUS 4904r Honors Study (1-6)
MUS 4970r Senior Project/Thesis/Recital (2)
MUY 4940r Clinical Internship in Music Therapy (1-12)
MV(B, K, P, S, V, W) 4971r Senior Recital (0)
NUR 4945 Professional Nursing Internship (6)
NUR 4975r Honors Thesis (1-6)
PHI 4083 Research in Philosophy (3)
PHI 4912r Honors Thesis (3)
PHY 4910r Research Participation (1-3)
PSY 4039r Honors Work (1-6)

PSY 4920r Research Topics (1-3)
PSY 4944r Psychology Internship (1-6)
PUR 4940r Public Relations Internship (1-12)
REE 4941 Real Estate Internship (3)
REE 4970r Honors Thesis (1-6)
RMI 4941 Risk Management and Insurance Internship (3)
RMI 4970r Honors Thesis (1-6)
RTV 3941r Radio Practicum (1-9)
RTV 4800 Broadcast Operations and Management (3)
RUS 4935r Honors Thesis (1-6)
SDS 3802r Experiential Learning (0)
SLS 3717r Peer Learning Assistance (0-1)
SOW 4911r Honors Work in Social Work (1-6)
SPA 4970r Honors Thesis in Communication Disorders (1-6)
SPN 4935r Honors Thesis (1-6)
STA 4970r Honors Thesis (3)
SYA 4931r Honors Work (3)
TSL 4251 Applied Linguistics for Second Language Learning (3)
TSL 4324 ESOL Instruction in the Content Areas (3)
WST 4970r Honors Thesis-Women's Studies (1-6)

Diversity Requirement

To satisfy this requirement, students will be required to take one course from each of the two categories described below. All students are required to complete at least one "x" and one "y" course, with the following exceptions: students who have completed an AA degree from an articulated institution (including those who have completed a high school AA degree from an articulated institution) and transfer students who enter the University with sixty or more credit hours are only required to complete one Diversity course (either "x" or "y").

The diversity requirement must be completed with the grade of "C–" or higher prior to the receipt of the baccalaureate degree.

Cross-Cultural Studies (X) Courses

ADV 3410x Hispanic Marketing Communication (3)
AML 3682x American Multi-Ethnic Literature (3)
ANT 2000x Introduction to Anthropology (3)
ANT 2410x Introduction to Cultural Anthropology (3)
ANT 2416x Childhood Around the World (3)
ANT 3141x World Prehistory (3)
ANT 3212x Peoples of the World (3)
ANT 3300x Masculinity in Global Perspective (3)
ANT 3610x Language and Culture (3)
ANT 4241x Anthropology of Religion (3)
ARH 2090sxw Great Discoveries in World Archaeology (3)
ARH 3515x History of African Art (3)
ARH 3572x History of Islamic Art (3)
ARH 4372x Spanish Colonial Art: The Hapsburg Period, 1492/1506–1700 (3)
ARH 4882x Visual Cultures of the African Diaspora (3)
ASH 1044xw Middle Eastern History and Civilization (3)
ASH 3100xw History of Asia (3)
ASH 3382x The History of the U.S. and East Asia: 1850 to the Present (3)
ASN 3822x Traditions of East Asian Humanities (3)
CHT 3123rx Pre-Modern Chinese Literature and Culture (3)
CHT 3124rx Modern Chinese Literature (3)
CHT 3301rx Chinese Folklore: Myths, Legends, and Fairy Tales (3)
CHT 3391rx Chinese Cinema and Culture (3)
CHT 3392rx Writing Women in Pre-Modern China (3)
CHT 3501rx Chinese Civilization (3-6)
CLA 2010sxw Peoples of the Roman World (3)
CLA 2810sxw Ancient Science for Non-Science Majors (3)
CLT 3378sxw Ancient Mythology, East and West (3)
DAN 3144xw Cultural Perspectives on Dance (3)
EUH 3205xw 19th–Century Europe (3)
FRT 3520rx French and Francophone Cinema (3)
GEA 1000x World Geography (3)
GEO 1400x Human Geography (3)
GEO 4421x Cultural Geography (3)
HFT 2060x Coffee, Tea and International Culture (3)
HFT 2061x Ales, Lagers and International Culture (3)
HFT 2062x International Wine and Culture (3)
HFT 2063x Distilled Spirits and International Culture (3)
HFT 2890x International Food and Culture (3)
HUM 3123x Irish Culture: An Introduction (3)
HUN 2125x Food and Society (3)
IDS 2129x When Culture and Business Collide: Communication in an International Context (3)
IDS 2160x The Tourist Trap: The Good, the Bad, and the Ugly (3)
IDS 2165x Intercultural Communication, Business, and Sustainability: Writing for "Green" Everywhere (3)
IDS 2170x Music in the World (3)
IDS 2335x Central American Cinema (3)
IDS 2370x Festivals: Artisanship, Satire, and Fire (3)
IDS 2420x Heretics, Rebels and Militants in the Islamic World (3)
IDS 2431x Thinking Beyond Ourselves: Global Perspectives (3)
IDS 2453sx Reality and Illusion in World Cinema (3)
IDS 2456x Who is Human? Culture, Gender and Human Rights (3)
IDS 2460x Global Perspectives: Communication (3)
IDS 2461x Music and International Human Rights (3)
IDS 3188x German Society Through Film: The Legacy of Nazi Crimes Against Humanity (3)
IDS 3330x The Culture is in the Cuisine: The Food of Italy (3)
IDS 3365x Global Conflicts: Analysis and Resolution (3)
IDS 3450x Through an Arabic Lens: The Intersection of Film and Culture (3)
IDS 3459x Cinema Gone Global (3)
IDS 3466x India Through Bollywood Film (3)
JPT 3391rxw Japanese Film and Culture (3)
JPT 3511rx Japanese Popular Culture (3)
JPT 4504x The Culture of Tea in Japan (3)
LAH 1093xw Latin America: A Cross-Cultural History (3)
LDR 2213sx Leadership for Social Justice (3)
LIT 3024x Perspectives on the Short Story (3)
MUH 2051x Music in World Cultures (3)
MUH 2512x Music in World Cultures (2). (For music majors.)
PHM 2300x Introduction to Political Philosophy (3)
REL 1300xw Introduction to World Religions (3)
REL 2315x Religions of South Asia (3)
REL 2350x Religions of East Asia (3)
REL 3145xw Gender and Religion (3)
REL 3152x Religion, Race and Ethnicity (3)
REL 3170xw Religious Ethics and Moral Problems (3)
REL 3333x Ramayana in Indian Culture and Beyond (3)
REL 3337x Goddesses, Women, and Power in Hinduism (3)
REL 3340x The Buddhist Tradition (3)
REL 3345x Chan/Zen Buddhism (3)
REL 3351x Japanese Religions (3)
REL 3358x Tibetan and Himalayan Religions (3)
REL 3370x Religion in Africa (3)
REL 3935rx Topics in Buddhism (3)
SLL 3500x Slavic Culture and Civilization (3)
SLL 3510x The Slavic Vampire (3)
SPC 4710x Interracial/Intercultural Communication (3)
SPM 4013x Cross-Cultural Sport (3)
SPT 3130xw Latin American Literature in Translation (3)
SPT 3391x Hispanic Cinema (3)
SPT 3503x Introduction to Hispanic Cultural Analysis (3)
SPW 3493sx Readings from Spanish America (3)

SPW 4774sx Cuba: Diaspora, Race, and Cultural Identity (3)
URS 1006x World Cities: Quality of Life (3)
WOH 1023xw The Modern World to 1815 (3)
WOH 1030xw The Modern World Since 1815 (3)

Diversity in Western Experience (Y) Courses

AFA 1003y Diversity and Justice (1)
AFA 3101yw Theories of African American Studies (3)
AMH 2091yw The African–American Experience in the United States (3)
AMH 2095yw American Indians in the United States (3)
AMH 2096yw Black Women in America (3)
AMH 2097yw Nationality, Race, and Ethnicity in the United States (3)
AMH 2583y The Seminoles and the Southeastern Indians (3)
AML 2600yw Introduction to African-American Literature (3)
AML 4604y The African-American Literary Tradition (3)
ANT 3451y Race: Biology and Culture (3)
ARH 4413y Spanish Colonial Art: The Bourbon Period; 1700–1821/1898
ASL 2510y Deaf Culture (3)
CLA 3501yw Gender and Society in Ancient Greece (3)
CLT 3510syw The Ancient World in Film (3)
DAN 3185yw African-American Perspectives on Dance (3)
EDF 2085y Teaching Diverse Populations (3)
FOW 3240yw Literature and Sexuality (3)
FRT 3561yw French Women Writers (3)
GEA 4405y Latin America (3)
GET 3130yw Masterpieces of German Literature in Translation: 19th and 20th Centuries (3)
GET 3524ry German Cinema (3)
HFT 2080y International Protocol on Western Behavior and Service Standards (3)
HIS 3205yw LGBTQ History (3)
HIS 3464yw History of Science (3)
HIS 3491yw Medicine and Society (3)
HPS 3320yw Screening the Scientific Life: Cinema and the Cultural Image of Science (3)
HUM 3321syw Multicultural Dimensions of Film and 20th-Century Culture (3)
IDH 2117y **Social (In)Equalities: Social Construction of Difference and Inequalities (3)**
IDS 2173y A Social History of America's Popular Music (3)
IDS 2321sy The Blindness Experience (3)
IDS 2323y Central American Cinema (3)
IDS 2375x Third World Cinema (3)
IDS 2454y Fantasy Girls: Philosophical Examination of Women and Girls in Fantasy and Science Fiction (3)
IDS 2672sy Music and Film (3)
IDS 2673y Popular Music in Literature (3)
IDS 2677y Female Friendship Alliances in Shakespeare (3)
IDS 3193y Ancient Sexualities and Modern Sexual Politics (3)
IDS 3336y Great Britain? Geography, Imperialism, Industry and Culture (3)
IDS 3458sy Lions and Tigers and Bears, Oh My! Multicultural Dimensions of American Cinema (3)
IDS 3512y Examining the Educational Achievement Gap (3)
ITT 3430yw Masterpieces of Italian Literature and Culture in Translation (3)
ITT 3500yw Italian Culture and Civilization: From Origins to the Age of Romanticism (3)
ITT 3501yw Modern Italian Culture: From the Unification to the Present (3)
ITT 3520yw The Italian–American Experience in Literature and Film (3)
ITT 3523yw Italian Cinema (3)
LDR 2241y Black Male Leadership (3)
LDR 2242y Gender and Leadership (3)
LDR 2243y Latinx Leadership Development (3)
LEI 1181 Leisure and Recreation Adaptations for All Ages and Abilities (3)
LIT 3383yw Women in Literature (3)
MUH 2019y Modern Popular Music (3)
MUH 3053yw American Roots Music (3)
NSP 3185y Multicultural Factors and Health (3)
PHI 2635yw Bioethics (3)
PHM 2121y Philosophy of Race, Class, and Gender (3)
REL 2121yw Religion in the United States (3)
REL 2210yw Introduction to the Old Testament (3)
REL 2240yw Introduction to the New Testament (3)
REL 3363y Islamic Traditions (3)
REL 3367y Islamic Traditions II: Islam up to the Modern World (3)
REL 3607yw The Jewish Tradition (3)
RUT 3110y Russian Literature in English Translation (3)
RUT 3505y Russian Culture and Civilization (3)
RUT 3514y Russian Folklore and Fairy Tales (3)
RUT 3523ry Russian Cinema (3)
SOP 3742y Psychology of Women (3)
SOP 3782y Psychology of the African-American (3)
SOW 4620y Diversity and Social Justice (3)
SYD 2740sy Sociology of Law and Hispanics (3)
SYD 3800y Sociology of Sex and Gender (3)
SYD 4700y Race and Minority Group Relations (3)
SYG 2010y Social Problems (3)
SYO 3200y Sociology of Religion (3)
THE 2000y Introduction to Theatre (3)
THE 4433y Gender, Race and Performance (3)
WST 3251yw Women in Western Culture: Images and Realities (3)

Natural Sciences Laboratory Requirement

Students must complete at least one semester hour of a Natural Sciences laboratory course as a graduation requirement. Students will demonstrate the ability to apply scientific principles in designing and conducting experiments and interpret evidence. Laboratory courses are designated by the suffixes "L" or "C" appended to the course number. Students will typically take this course concurrently with the associated course (e.g., students will enroll in both BSC1005 *and* BSC 1005L). The Natural Sciences Laboratory requirement must be completed with a grade of "C–" or higher.

Upper-Division Writing Requirement

Skill in professional writing is critical to the long-term success of all FSU graduates. All students will be required to demonstrate competency in professional writing by completing one approved upper-division course that includes a substantial writing component. This coursework may be completed outside or within a student's major course of study or by Honors in the Major theses credit. The Upper-Division Writing requirement must be completed with a grade of "C–" or higher.

Note: Students must complete an Upper-Division Writing course in addition to the courses used to satisfy the State-Mandated Writing requirements.

Upper-Division Writing Courses

ACG 4970r Honors Thesis (1-6)
ADV 4300 Media Planning (3)
AML 4604y The African-American Literary Tradition (3)
ANT 4241x Anthropology of Religion (3)
ANT 4312 Contemporary Native American Cultures (3)
ANT 4914r Honors Work (1-3)
ARA 4970r Honors Thesis (1-6)
ARH 4800 Methods of Art History and Criticism (3)
ARH 4815r Honors Work in Art History (1-6)
ARH 4801r BFA All-Media Critique (3)
ART 4851s BA: Exploring Opportunities in the Arts (3)
ART 4981r Honors Work (3)
ASH 3230 Middle East Research: An Interdisciplinary Seminar (3)
ASN 4970r Honors Thesis (1-6)
AST 3721Ls Astrophysics Laboratory (2)

BCH 4053L General Biochemistry I Laboratory (3)
BSC 3402L Experimental Biology Laboratory (3)
CCJ 3032 Crime in Media (3)
CCJ 4909r Honors in Criminology (3)
CEN 4020s Software Engineering I (3)
CGN 4800 Pre-Senior Design and Professional Issues (2)
CGN 4906r Honors Work in Civil and Environmental Engineering (1-6)
CHI 4410 Advanced Chinese (3)
CHM 2211L Organic Chemistry II Laboratory (3)
CJE 3617s Cold Case Investigations (3)
CLA 4909r Honors Work (1-6)
CLA 4935rs Seminar in Classical Civilization (3)
CLT 4532 The Return Home in Greek Myth (3)
COM 4560 Social Marketing (3)
COM 4909r Honors Work (1-6)
CRW 3753 Writing Florida (3)
DAN 3146 Contemporary Perspectives on Dance (3)
ECH 4404L Unit Operations Laboratory (3)
ECO 4934r Honors Work (1-3)
ECP 4530 Economics of Health (3)
EDE 4970r Honors Work (3)
EEL 3927 Engineering Design Concepts (3)
EEL 4906r Honors Work in Electrical Engineering (1-6)
EEX 4970r Honors Work in Special Education (3)
EIN 4890s Industrial Engineering Senior Design Project I (3)
EIN 4934r Honors Thesis (3)
EML 3012C Mechanics and Materials II (3)
EML 4970r Honors Work (3)
ENC 3310 Article and Essay Technique (3)
ENC 3416 Writing and Editing in Print and Online (3)
ENG 4934s Senior Seminar in Literature (3)
ENG 4936r Honors Thesis (1-6)
ENT 3629 Entrepreneurial Technologies (3)
ENT 4114 Business Plan Design (3)
ENT 4991r Honors Thesis (3)
EUH 4465 Weimar and Nazi Germany (3)
EUS 4970r Honors Thesis (1-6)
EVR 4922 Environmental Science Capstone (4)
FAD 4910r Honors Work (3-6)
FIL 4135 Thesis Development (3)
FIL 4975r Undergraduate Honors Thesis (1-6)
FIN 4970r Honors Thesis (1-6)
FLE 4937r Honors Work (3)
FRE 4422 Advanced Grammar and Composition (3)
FRE 4935r Honors Thesis (1-6)
GEB 3213 Business Communications (3)
GER 4420 Advanced Composition (3)
GER 4935r Honors Thesis (1-6)
GLY 4544C Sedimentation and Stratigraphy (4)
HEE 4912r Honors Work (3)
HFT 3242 Communication in Hospitality (3)
HFT 4502 Integrated Marketing for Hospitality (3)
HFT 4970r Honors Thesis (1-6)
HIS 3505 Perspectives on Science and Mathematics (3)
HIS 4935s Senior Seminar (3)
HIS 4936r Honors Work (1-6)
HUM 3218 Humanism and the Humanities (3)
HUN 4913r Honors Thesis (3-6)
IHS 4901s Interdisciplinary Medical Sciences Capstone (3)
IND 4506 Business Practices (3)
IND 4970r Honors in the Major (3)
INS 3003 Introduction to International Affairs (3)
ISC 4044 Upper Division Technical Writing (3)
ISC 4943r Practicum in Scientific Computing (3)
ISC 4971r Honors Thesis (3)
ISM 4970r Honors Thesis (1-6)
ISS 4164 Intersections, Power, & Policy (3)
ITA 4450 Advanced Italian Composition and Style (3)
ITA 4935r Honors Thesis (1-6)
LAE 4937r Honors Work (3)
LEI 4524 Leadership and Supervision in Recreation, Tourism and Events (3)
LIN 4040 Introduction to Descriptive Linguistics (3)
LIS 3793s Information Architecture (3)
LIS 4022 Writing for the Information Professions (3)
LIT 3024x Perspective on the Short Story (3)
MAN 4970r Honors Thesis (1-6)
MAR 4970r Honors Thesis (3)
MET 4501C Synoptic Lecture-Laboratory II: Four Dimensional Structure (4)
MHF 3111 Calculus and its History (3)
MMC 4200s Media Legalities (3)
MMC 4203 Media Ethics (3)
MMC 4300 Diffusion of Innovations (3)
MMC 4302s Comparative and International Media Studies (3)
MMC 4504 Writing Media Criticism (3)
MUH 3212 Survey of Music History: 1750 to Present (3)
MUS 4904r Honors Study (1-6)
NUR 4169 Evidence-Based Nursing (2)
NUR 4975r Honors Thesis (1-6)
PHI 4912r Honors Thesis (3)
PHI 4938r Seminar for Majors (3)
PHY 3802Ls Intermediate Laboratory (2)
PSY 3213Cs Research Methods in Psychology with Laboratory (4)
PSY 4039r Honors Work (1-6)
PUR 3100 Writing for Public Relations (3)
RED 4310 Early Literacy Learning (3)
RED 4335 Literacy Across the Content Areas (3)
REE 4970r Honors Thesis (1-6)
REL 3370x Religion in Africa (3)
REL 4044s What is Religion? What is Religious Studies? (3)
REL 4335s Modern Hinduism (3)
REL 4366 Seminar on Shi'ite Islam (3)
REL 4393 Islam in North America (3)
RMI 4970r Honors Thesis (1-6)
RTV 3101 Writing for the Electronic Media (3)
RUS 4935r Honors Thesis (1-6)
RUW 3100 Survey of Russian Literature I (3)
SOW 4232 Social Welfare Policies and Programs (3)
SOW 4911r Honors Work in Social Work (1-6)
SPA 4101C Anatomy and Physiology of the Speech and Hearing Mechanism (4)
SPA 4970r Honors Thesis in Communication Disorders (1-6)
SPM 4014 Sport and Literature (3)
SPN 4420 Advanced Spanish Composition and Translation (3)
SPN 4935r Honors Thesis (1-6)
STA 4931 Statistics in Practice (3)
STA 4970r Honors Thesis (3)
SYA 4931r Honors Work (3)
THE 4303 Play Analysis (3)
WST 3015 Introduction to Women's Studies (3)
WST 4970r Honors Thesis-Women's Studies (1-6)

Oral Communication Competency

Students will develop effective oral communication skills through the use of public speaking activities in courses designed to provide instruction and ample opportunities for guided practice in oral communication. Through these courses, students master the kinds of oral communication that are appropri-

ate for their academic or professional majors and future leadership roles. In order to meet the Oral Communication Competency requirement students must attain a grade of "C-" or higher in an approved Oral Communication Competency course.

Oral Communication Courses

BSC 3402L Experimental Biology Laboratory (3)
BSC 4945 Undergraduate Supervised Teaching (1)
CGN 4800 Pre-Senior Design and Professional Issues (2)
AND
CGN 4802s Senior Design Project (3)
Note: Both courses must be taken to satisfy the requirement.
CIS 3250L Ethics and Computer Science Public Speaking Lab (1)
CJL 4565 Courts and Social Policy (3)
CLA 2110sw Debates about the Past: Greek Civilization, History and Culture (3)
CLA 2123sw Debates about the Past: Roman Civilization, History and Culture (3)
COM 2080 Online Communication and Presence (3)
COM 3110 Communication for Business and the Professions (3)
ECH 2050 Engineering Communications (2)
ECH 3274L Transport Phenomena laboratory (3)
EDG 4410 Classroom Management and Legal Issues (3)
EEL 4911Cs Senior Design Project I (3)
EIN 3010 Industrial and Manufacturing Engineering Tools (3)
EML 4551Cs Senior Design Project I (3)
AND
EML 4552Cs Senior Design Project II (3)
Note: Both courses must be taken to satisfy the requirement.
ENL 4336 Orality and Poetics: Shakespeare's Sonnets (3)
ENT 3111 Creating Value Through Customer Acquisition (3)
FIL 2090r Professional Communication (1)
FRE 4410 Advanced Conversation (3)
GEB 3213 Business Communications (3)
GER 3400 Composition and Conversation (3)
HIS 4065 Public History Theory and Methods (3)
IDS 2402 Mathematics for Civic Engagement (3)
IDS 2490 Social Responsibility (Rhetorically Speaking) (3)
IDS 2491 Communication Matters: Personal Responsibility in Public Speaking (3)
IDS 2680 Reading, Writing, and Speaking in the Digital Age (3)
ISC 4044 Upper Division Technical Writing (3)
ITA 4410 Advanced Italian Conversation (3)
JPN 3250 Practical Skills in Japanese Communication (3)
LIS 2527 Digital Storytelling in Information Environments (3)
MET 3940r Weathercasting (1)
MSL 4301 Leadership & Management (3)
MUE 3491 Communication Skills for the Musician: Choral (2)
AND
MUE 3495r Music Education Laboratory: Choral (1)
Note: Both courses must be taken to satisfy the requirement.
MUE 3493 Communication Skills for the Musician: Instrumental (2)
AND
MUE 3496r Music Education Laboratory: Instrumental (1)
Note: Both courses must be taken to satisfy the requirement.
MUT 3574s Popular Music Analysis (3)
MUY 4402 Music Therapy: Methods and Practicum II (3)
MVK 3631 Piano Pedagogy I (3)
MVK 4641 Advanced Piano Pedagogy I (3)
NUR 3076 Communication in Health Care (3)
PHY 3091 Communication in Physics (2)
REL 4044s What Is Religion? What Is Religious Studies? (3)
SMT 4664 Project-Based Instruction (FSU-Teach) (3)
SOW 3350 Interviewing and Documentation (3)
SPC 1017 Fundamentals of Speech (3)
SPC 2067 Communication for Arts and Design (3)
SPC 2608 Public Speaking (3)
SPC 4620 Strategic Speech Making (3)
THE 2020 Introduction to Theatre for Majors (3)

Computer Competency

All undergraduates at Florida State University must demonstrate basic computer competency prior to graduation. The computer competency requirement may be satisfied in one of two ways:

1. Earn a grade of "C–" or higher in a course(s) that has been approved by the Liberal Studies Coordinating and Policy Committee for computer skills competency in the major; or
2. Have a prior course, passed with a grade of "C–" or higher, certified by the student's major department as equivalent to the courses approved for computer skills competency in the major

The specific computer competency skills needed vary from discipline to discipline, and while a minimum level of competency is required, means of assessing such competency must remain flexible. Thus, associated with each major is a required course(s) that provides instruction in the discipline-specific computer skills, and students passing this course(s) with a grade of "C–" or higher will be considered to have completed the requirement. The list of required courses for each major will include at least one course flagged as satisfying the computer skills requirement. Students should check with their major department to identify the course(s) designated by the department as satisfying the computer skills competency in the major.

Transfer Credit and Liberal Studies for the 21st Century

The Office of Undergraduate Studies evaluates transfer credits as they apply to the courses within the General Education and State-Mandated Writing requirements of the *Liberal Studies for the 21st Century* program and the Civic Literacy requirement. Students with the AA degree or General Education Statement from a Florida public university, state college, community college, or other colleges with which Florida State University maintains an official articulation agreement are exempted from the General Education and State-Mandated Writing courses within the Liberal Studies for the 21st Century program. However, transfer students will be required to complete graduation requirements as specified in this chapter of the *General Bulletin*, with the following exceptions: transfer students who have earned sixty or more hours will only be required to take one Scholarship in Practice or Formative Experience course and one Diversity course (either an "x" or "y"). Visit *http://liberalstudies.fsu.edu/civic-literacy.html* for the most recent guidance on meeting Civic Literacy.

Progression to Upper Division

For progression to upper-division status at Florida State University, a student must meet the following minimum requirements:

1. Completion of at least fifty-two semester hours of college credit
2. Achievement of a minimum GPA of 2.0 on all work attempted at Florida State University

Note: Some degree programs require a higher GPA for admission to upper-division status.

3. Students who began college work prior to October 15, 1982 must complete a minimum of one-half of the required semester hours from the required General Education curriculum, including English Composition and undergraduate mathematics (computation).
4. Students who began their college-level work on or after October 15, 1982 and prior to Summer C semester 2015 must complete a minimum of one-half of the required semester hours from the General Education curriculum, including the completion of State mandates and University-wide requirements for specific coursework in writing and computation. A minimum grade of "C–" is required in each of the courses used to fulfill the General Education requirements in computation and English Composition.
5. Students who began their college-level work on or after the start of Summer C semester 2015 must complete a minimum of one-half of the required semester hours from the General Education curriculum, including the completion of all State-mandated computation coursework and the two required English composition courses (ENC 1101 and ENC

2135). A minimum grade of "C–" is required in each of the courses used to fulfill the General Education requirements in Quantitative and Logical Thinking and English Composition.

6. Acceptance by a college for admission to a degree program

Transfer from a lower-division major advisement program to an upper-division degree program is completed by the student's baccalaureate dean after the student has declared a choice and has been declared eligible for transfer under the above requirements. Transfer from undergraduate studies directly into a baccalaureate degree program is accomplished between the Office of Undergraduate Studies and the appropriate baccalaureate dean under the same conditions.

All transfer students admitted to the University who do not meet the above requirements for admission to an upper-division degree program (except those students majoring in music, dance, or the BFA in theatre) and who have fewer than fifty-two semester hours of transferable credit will be assigned to the Division of Undergraduate Studies. Students with fifty-two or more semester hours of transferable credit will be assigned to the lower-division major advisement program under the appropriate baccalaureate dean unless they request assignment to the Division of Undergraduate Studies. Students requesting assignment to Undergraduate Studies must do so through the undergraduate admissions office at least one month prior to registration. All students, including transfer students, must have met the requirements for transfer from the Division of Undergraduate Studies by the time they have attempted a total of seventy-five semester hours of college work.

Transfer Among Colleges for Upper-Division Students

For an upper-division student to change colleges within the University, the student must meet the following requirements:

- Obtain a signed approval form from the dean of the college **to which** the student wishes to transfer. The original copy of the approved change form, or notification from the academic dean, must be submitted to the Office of the University Registrar. The academic dean's office of the new college may choose to process the major change within the student system and retain the documentation within their office.
- Students seeking to add a second major must be on-track with the Milestones of the intended second major for the Map Term they are in (or minus one) at the point of adding the second major. However, the second major will *not* be monitored by Mapping afterwards. If the primary major is a "Limited Access" one, students must have approval from that major to add a second major before doing so. All second majors *must* be declared/added by the end of the semester in which a student will earn ninety cumulative credit hours toward their degree program at Florida State University.

The Associate of Arts

The Associate of Arts (AA) degree may be granted through the Division of Undergraduate Studies to students who have completed sixty semester hours with an adjusted GPA of 2.0 or higher at Florida State University and an overall 2.0 GPA on all college work attempted. A minimum of twenty of the last thirty semester hours of work must be earned in residence. Successful completion of the General Education portion of the *Liberal Studies for the 21st Century* program with a 2.0 GPA or higher is required for the AA degree. Students beginning their college program January 1983 or later must also meet State mandates and University-wide requirements for specific coursework in writing and computation.

Students **cannot** apply for both an Associate of Arts degree and a bachelor's degree to be awarded in the same semester. Also, the Associate of Arts degree cannot be awarded once a bachelor's degree has been conferred.

The awarding of the AA degree from Florida State University does not alter the calculation of the cumulative GPA at Florida State University. Certification for the AA degree in no way affects the requirements of individual colleges for the completion of the major/minor for a baccalaureate degree.

Students interested in receiving the AA degree and who are completing or have completed all the requirements listed above must officially apply at the Office of Undergraduate Studies.

Educator Preparation

Students planning to enroll in an Educator Preparation program at Florida State University must: (1) complete all University Liberal Studies requirements; (2) take and pass the General Knowledge portion of the Florida Teacher Certification Exam (FTCE); and (3) acquire a passing score on the Professional Education and Subject Area tests of the Florida Teacher Certification Exam (FTCE) prior to the final term internship and graduation. Students must also complete: (1) specified degree prerequisites referred to in the appropriate program chapters of this *General Bulletin*; (2) specific admission criteria described in the "Admissions" and "College of Education" chapters of this *General Bulletin*; and (3) the "Baccalaureate Degree Requirements" described earlier in this chapter of the *General Bulletin*. **Students should note that all undergraduate Educator Preparation programs in the College of Education are combined BS/MS degree programs.**

Students must consult with an advisor to determine how to simultaneously satisfy Florida State University's Liberal Studies requirements and the teacher preparation general education core curriculum requirements.

The Baccalaureate Degree

Florida State University's general requirements for all baccalaureate degrees (bachelor's degrees) are listed at the beginning of this chapter under "Baccalaureate Degree Requirements."

Graduation Planning and Strategies Office

The Graduation Planning and Strategies (GPS) Office provides programming and academic support activities for undergraduate students with high credit hours and other general advising needs to promote long-term planning and support student-driven goals for graduation and beyond.

The GPS Office establishes and implements programs, policies, and procedures that affect timely graduation and encourage students to maximize available options for degree completion. In consultation with colleges and departments, Graduation Specialists mediate, design, and manage graduation plans for students while providing intensive advising and degree planning assistance to facilitate timely degree completion.

Academic Progress Checks

All undergraduate students complete the online request for a University academic progress check from the Office of the University Registrar, no later than the time the student has earned ninety semester hours of credit or **two terms** prior to the planned graduation date. Students will receive holds on their account prompting them to request an academic progress check from the Office of the University Registrar and an academic progress check from their college(s).

Application for Graduation

Application for a degree must be made during the application period defined in the academic calendar in the term in which the student expects to graduate. Students can apply for graduation online through the ***Apply for Graduation*** link under ***myFSU Links*** on the myFSU portal (*http://my.fsu.edu*). If the student is unable to graduate at the end of the term for which application was made, the application for graduation will carry forward to the subsequent term. Students with 160 or more earned hours may be placed on the graduation list by the University. Students in this category who are added to the graduation list will be notified by the Graduation Planning and Strategies Office and provided detailed information as to their options at that time.

The Bachelor of Science Degree

The Bachelor of Science (BS) degree requires all the general criteria listed at the beginning of this section.

The Bachelor of Arts Degree

The Bachelor of Arts (BA) degree requires all the general criteria listed at the beginning of this section, **and**

1. Completion of a classical or modern foreign language through the 2000 level (2200 or equivalent course)
2. Nine semester hours in the fields of humanities and history, in addition to the General Education and the world language requirement. Courses may be selected from the following colleges, and departments: College of Fine Arts; College of Music; College of Communication and Information (not including work in Communication Disorders or Information), and the departments of Classics, English, History, Modern Languages and Linguistics, Philosophy, or Religion in the College of Arts and Sciences.

Second Baccalaureates and Second Majors

Students should note that there is a difference between a second major and a second baccalaureate degree.

Bachelor's degree with more than one major. To obtain a second major, one must meet all requirements of the college of the primary major, but only the major requirements of the secondary major. For information about the second major see 'Second Majors and Academic Regulations' in the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Dual bachelor's degrees. In rare cases students may pursue multiple bachelor's degrees simultaneously. The requirement for earning concurrent, or dual bachelor's degrees, are: (1) satisfy the requirements for each major/minor as well as individual college requirements for both the first and the second degrees; (2) complete thirty semester hours in residence, in addition to the hours required for the first degree, for a minimum total of 150 earned hours, and 3) complete all University degree requirements. There are no Liberal Studies requirements for the additional degree(s).

Consecutive bachelor's degree beyond the first bachelor's. Students may receive additional baccalaureate degrees beyond the first degree in cases where a bachelor's degree has already been awarded. The requirements for an additional bachelor's degree are: (1) the requirements for each major/minor as well as individual college requirements for the second degree are satisfied; (2) a minimum of thirty semester hours in residence are completed, in addition to the hours required for the first degree; and (3) the State of Florida Civic Literacy Requirement. The additional thirty semester hours must be completed in residence after the completion of the first degree. Hours earned by the student during the completion of the first baccalaureate degree, over and above those extra credit hours actually required for the first degree, may not be included in the thirty semester hours. There are no Liberal Studies requirements for the second degree except for Civic Literacy.

University policy prohibits the awarding of more than one degree from a specific degree program due to the overlap of core requirements of that degree program. Students should seek guidance from their advisors or their college when choosing to pursue a double major or dual degree. This policy applies to both current and readmitted students.

Dual degrees and double majors must be declared by the end of the semester in which a student will earn ninety cumulative credit hours toward their degree program at Florida State University. In special circumstances, students may petition their primary academic dean for an exception. Petitions should document the students plan to graduate within four years at Florida State University. Special consideration will be given to take into account accelerated credit earned while in high school.

Combined Bachelor's/Master's Pathways, Direct-Entry Pathways

Combined Bachelor's/Master's Pathways. Combined bachelor's/master's pathways provide academically talented undergraduate students an opportunity to complete both a bachelor's and a master's degree. Upon approval, a combined bachelor's/master's pathway allows for up to 12 graduate hours to be shared with an undergraduate degree program and the associated graduate program.

Direct-Entry Pathways. Direct-Entry Pathways are a type of combined pathway structured such that the curricula for two academic degrees are interwoven. Students are admitted to the bachelor's degree program with the understanding that they are expected to complete both degrees.

Note: Students interested in pursuing either a combined degree or direct-entry pathway should speak with their academic advisor as soon as possible to determine appropriate options and course selections. Additional admission criteria and procedurals are typically required.

Degrees of Distinction

Three degrees of distinction are granted to all native graduating students based on **all** college-level work attempted (excluding physical education activity courses) and including the term's work in which baccalaureate degree requirements are completed:

Cum Laude for an overall average of 3.500

Magna Cum Laude for an overall average of 3.700

Summa Cum Laude for an overall average of 3.900

Degrees with distinction are granted to transfer students who meet all three of the following requirements:

1. The student must complete at this University at least forty semester hours of letter-graded work, including the final term's work.
2. The student must have the required minimum grade point average for each distinction level on all work taken at this University.
3. The student must have the required overall grade point average on **all** work attempted, including any transfer and dual-enrollment credit excluding any physical education activity courses or vocational courses, regardless of how many years have elapsed since the credit was earned. Transfer credit cannot raise a student's Florida State University grade point average. Therefore, if the transfer grade point average is higher than the Florida State grade point average, the level of distinction will be based on the Florida State grade point average.

Graduation "With Honors"

Students who complete and successfully defend an upper-division honors thesis or equivalent honors projects (as defined by individual departments offering honors in the major) will graduate with the designation "With Honors." Students may graduate with one of the three degrees of distinction described above and "With Honors." The "University Honors Program and Honor Societies" chapter of this *General Bulletin* fully describes the Honors in the Major Program.

Policy for Awarding Degrees

Florida State University helps students meet their academic goals by monitoring academic progress toward their degree. In addition to the academic dean, the Graduation Planning and Strategies Office may contact students to assist with finalizing their degree plans in order to meet their individual goals and graduate.

If an undergraduate student has completed his or her respective degree requirements, the Academic Dean of the student's program confirms this, and the student is eligible to be awarded the degree, the University reserves the right to award the degree. Once the degree is awarded, the student must be readmitted to Florida State University in order to enroll in any courses.

Students pursuing double majors or dual degrees must formally notify their academic dean of their intent. Undergraduate students pursuing dual degrees in different disciplines must obtain formal approval of their academic dean, following established University procedures for such approvals.

Should the University invoke its prerogative to award a degree once a student has completed all stated degree requirements, the student may appeal this decision. If the student can demonstrate that continued enrollment is necessary to achieve his or her academic goals, the appeal may be granted. Reasons such as, but not limited to, desire to continue financial aid, participate in student activities, and access student services do not constitute legitimate reasons for appeal.

Any undergraduate student who wishes to appeal for continued enrollment, thereby postponing graduation, must submit a written request to the student's academic dean no later than ten class days after being notified that the University is invoking its right to award the degree. This appeal will be reviewed by a committee composed of the student's primary academic dean, the Dean of Undergraduate Studies, and the University Registrar. The committee must find evidence to support the student's claim of a legitimate academic need in order to grant permission to continue taking courses.

Once a degree has been awarded, all coursework leading to that degree is considered final and not subject to change. "Incomplete" grade changes or any other grade changes should be submitted prior to the posting of the degree. Grade changes or withdrawals for coursework that applies to the awarded degree may be considered only in cases of documented University error or in cases where the courses in question are documented as applying to a degree that is still in progress.

Undergraduate Level Certificate Programs

The University offers a variety of certificate programs, which consist of an organized curriculum of courses that lead to specific educational or occupational goals. A list of all of the certificate programs offered by the university is available in the Academic Degree and Certificate Programs chapter of the *General Bulletin*. These programs are generally considered professional in nature and the completion of these programs are noted on the student's official university transcript, if the following conditions are met:

1. The student must apply and be admitted into the certificate program in order to be officially recognized as pursuing the program by the university.
   a. Some certificate programs may be restricted by degree level or offered only to degree-seeking students, while others are open to all enrolled students.
   b. The admissions criteria may include previous educational background, grade point average, or other qualifications.
   c. For formal admission requirements and procedures, students should contact the department offering the certificate program.
2. The student must apply to the certificate program prior to completing the second course in the program.
   a. Completing the certification program coursework without proper admission to the program could jeopardize future enrollment opportunities in certificate program courses or the recognition of the completion of the certificate program by the university.
   b. Once the student has been admitted to the certificate program, the department will notify the Registrar's Office so it is reflected on the student's official academic record.

c. Once the student has completed the last course required for the certificate program, the department will notify the Registrar's Office and the certificate will be posted to the student's official transcript.

In the event that the student completes a degree program prior to completing the requirements for the certificate, the student would be required to be readmitted as a degree seeking or non-degree seeking student to complete the certificate program.

UNDERGRADUATE FINANCIAL INFORMATION, TUITION, FEES, AID, SCHOLARSHIPS, AND EMPLOYMENT

Vice President for Finance and Administration: Kyle Clark; **Controller:** Sandy Scanlan; **Associate Controller, Office of Student Business Services:** John Bembry

General Information

Tuition and fees are collected by the Office of Student Business Services. Payment of registration fees and tuition detailed below is an integral part of the registration process.

Students with accounts owing greater than $499.99 which are not paid by the established due date will not be permitted to register for current or future semesters. Students with accounts owing greater than $.01 will not be permitted to receive official university documents such as transcripts or diplomas.

Tuition Payments and Arrangements. The student's user name and password are required to access the Online Account Statement at *http://my.fsu.edu* (from ***myFSU Portal***, click Student Central, My Bill, ***$ Make a Payment***). Tuition and fees are due according to the established deadline at *http://studentbusiness.fsu.edu*. Financial aid is disbursed up to ten days prior to the start of classes and as received by the University any time thereafter. We encourage students to submit their third-party agency billings as soon as they have registered for classes. All third-party agency billings, departmental billings, FSU employee scholarships, state employee waivers, and Veteran's deferments are due by the third day of classes each semester.

Assessment of Fees. Fees are established by the Florida State University Board of Trustees and the Florida State Legislature and are subject to change. The University will calculate and assess the charges to be settled for fees due based on the fee rates authorized by the Florida State University Board of Trustees and the student's schedule. Students should review their ***Account Summary*** at *http://my.fsu.edu* (from ***myFSU Portal***) to verify the accuracy of the charges. At the time of payment, students should also review their payment receipt to verify the payment made, any outstanding charges owed, or any outstanding arrangements. Credit and debit card payments can be made at *http://www.fees.fsu.edu*. **Students who do not pay tuition and fees or make payment arrangements by the established deadline for each term will be assessed a $100.00 late payment fee and may have their course schedule cancelled.**

Panama City Campus. Students who intend to enroll at the Panama City campus of Florida State University may pay their fees at: *Cashier's Office, 4750 Collegiate Drive (Barron Building, 1st Floor), Panama City, FL 32405*. Students may pay by check, cash, money order, or cashier's check when paying in person. Credit card payments can ONLY be made at *http://www.fees.fsu.edu*. There is a non-refundable scaling fee of 2.3% for each transaction. Accepted forms of online payment include: American Express, Discover, MasterCard, and Visa. Electronic check payments are free of charge. For further information, please call *(850) 770-2119* or e-mail *cashier@pc.fsu.edu*.

Florida Residency Requirements for Tuition Purposes

The Florida Residency for Tuition Purposes Policy is based upon state statute, rules of the two higher education governing boards in Florida, and statewide guidelines developed by college and university administrators in conjunction with the Statewide Residency Committee and the Florida Department of Education. Section 1009.21, Florida Statutes, outlines the broad legal parameters for establishing residency for tuition purposes in Florida public higher education institutions. It is the highest level of authority regarding residency as established by the Florida Legislature. This statute also provides authority for the Department of Education to establish rules related to residency for tuition purposes.

Please note: Under Florida law it is possible for U.S. citizens with undocumented parents/guardians, lawful permanent residents, and certain non-U.S. citizens to be classified as Florida residents for tuition paying purposes. In addition, undocumented and Deferred Action for Childhood Arrivals (DACA) students who have attended a Florida secondary school for three consecutive years immediately preceding high school graduation, and apply for enrollment to a Florida public post-secondary institution within 24 months of high school graduation, may qualify for a waiver of out-of-state tuition fees.

At Florida State University there are three offices responsible for the review of residency for tuition purposes: the Office of Admissions, the College of Law, and the College of Medicine. The Office of Admissions determines residency for first-time-on-campus students except for the applicants to the College of Law or College of Medicine which are handled by their respective admissions staff. Reclassification determinations for students who enroll as out-of-state students for tuition purposes and wish to change to in-state students for tuition purposes are handled by the Office of Admissions. Each residency decision will be determined based upon all available information from the application for admission and the "Florida Residency Declaration for Tuition Purposes" form. The University reserves the right to request additional information if warranted.

For the full text of Florida Statute, Section 1009.21: *https://www.flsenate.gov/Laws/Statutes/2014/1009.21*

For the full text of State Board of Education Rule 6A-10.044: *https://www.flrules.org/gateway/RuleNo.asp?ID=6A-10.044*

For the full text of State Board of Education Rule 6A-20.003: *https://www.flrules.org/gateway/RuleNo.asp?ID=6A-20.003*

For the full text of Board of Governors Residency Regulation 7.005: *http://www.flbog.edu/board/regulations/regulations.php*

Residency Appeal Committee

Students who are denied the classification of Florida resident for tuition purposes have the right of appeal. The appeal must be based upon new information that was not made available during the initial review. All appeals must be in writing to the Residency Appeal Committee, care of the Office of Admissions. Appeals should be submitted as soon as possible after receipt of the initial decision and no later than the end of the term for which Florida residency for tuition purposes is desired. All appeals will be reviewed by the Residency Appeal Committee and Committee decisions are final.

Residency Guidelines

A Residency Guidelines document was adopted by the Articulation Coordinating Committee to assist college and university administrators in implementing Florida Residency for Tuition Purposes Policy. The Guidelines are maintained by the Statewide Residency Committee which is comprised of residency experts from the state's public colleges and universities.

For the full text of the Guidelines on Florida Residency for Tuition Purposes, visit *https://www.floridacollegesystem.com/sites/www/Uploads/files/Students_pages/ACCResidencyGuidelines.pdf*.

Basic Definition of Residency for Tuition Purposes

A Florida resident is a student who has, or a dependent person whose parent or legal guardian has, established and maintained legal residency in Florida for at least twelve months preceding the first day of classes of the term for which residency is sought. **Residence in Florida must be as a bona fide domicile rather than for the purpose of maintaining a residence incident to enrollment at an institution of higher education.** To qualify as a Florida resident for tuition purposes, the student must be a U.S. citizen, permanent resident alien, or in legal status as determined by U.S. Citizenship and Immigration Services (USCIS).

Please note: See above for information about individuals who are U.S. citizens with undocumented parents/guardians, lawful permanent residents, Deferred Action for Childhood Arrivals (DACA), and certain non-U.S. citizens who may be classified as Florida residents for tuition paying purposes.

Other persons not meeting the twelve-month legal residency requirement may be considered as Florida residents for tuition purposes only if they fall within one of the exception categories authorized by the Florida Legislature and State Board of Education. All other persons are ineligible for classification as a Florida resident for tuition purposes.

Living in or attending school in Florida will not, in itself, establish legal residence for tuition purposes. Each student shall submit a Florida Residency Declaration for Tuition Purposes form, electronically or in another format, and the documentation required to establish Florida residency for tuition purposes. The burden of providing clear and convincing documentation that justifies the University's classification of a student as a resident for tuition purposes rests with the student. For documentation to be "clear and convincing," it must be credible, trustworthy, and sufficient to persuade the University that the applicant has established legal residence in Florida. Students who depend on out-of-state parents for support are presumed to be legal residents of the same state as their parents.

Tuition and Instructional Fees

The "Academic Calendar" appearing in the *Registration Guide* each term sets forth the beginning and ending dates of each term and all deadlines.

Actual Course Fee Charge per Credit Hour 2019–2020 at the FSU Main Campus

Course Level	In-State & Enrolled in a Florida Prepaid Account Before 7/1/07	In-State */**	Out-of-State */**
0001–4999	$165.96	$215.55	$721.10
Repeat Course Fee per credit hour (undergraduate only)		$192.85	$192.85

*Includes Tuition Differential Fee

Course Level	In State**	Out-of-State**
5000 and above	$479.32	$1,110.72
Law $688.11		$1,355.18
Medical per year	see *http://med.fsu.edu*	

**Per credit hour does not include the Student Facilities Use Fee assessed to Main Campus Students at the rate of $20 per semester.

Actual Course Fee Charge per Credit Hour 2019–2020 at the FSU Panama City Campus

Course Level	In-State	Alabama/Georgia Special Rate*	Out-of-State
0001–4999	$180.49	$200.49	$686.04

*Visit *http://www.pc.fsu.edu/*

Course Level	In State	Alabama/Georgia Special Rate*	Out-of-State
5000 and above	$444.26	$464.26	$1,075.66

*Visit *http://www.pc.fsu.edu/*

Zero Credit-Hour Course Fees

Registration for zero credit hours provides for examinations, graduations, use of facilities, etc., when deemed appropriate by the institution. The student is assessed Resident tuition and fees for one credit hour. If the student is simultaneously registered for other credit courses, the charge for the zero-hour registration will not be assessed.

Students enrolled in cooperative education courses with zero semester hours will be charged for one semester hour of Florida resident undergraduate work, unless also enrolled in other credit courses at Florida State University during the same academic term.

Students registered in courses for zero semester hours (master's comprehensive examination, master's thesis defense, dissertation defense, or other graduate-level zero semester hour courses) will be charged for one Florida resident graduate semester hour, unless also enrolled in other credit courses at Florida State University during the same academic term.

Special Fees, Fines, and Penalties

Note: All fees subject to change.

Application Fee: $30.00. Applicants for admission as degree-seeking or non-degree-seeking are assessed a nonrefundable application fee.

Admission Deposit: $200.00. Admitted first-year and law school students who plan to attend Florida State University must pay a **non-refundable fee** that will be applied to their tuition.

New Student Orientation Fee: $35.00. This fee is assessed when new students register to attend the required University orientation program. Students and guests are charged a base orientation fee of $35.00 per person, regardless of the session type or term entering FSU. This covers educational sessions, materials, and staff. Throughout orientation, additional costs may be assessed to students and/or guests to provide a quality and seamless experience. Some of these costs include a dining charge and a housing charge (FTIC/Lower Division Transfer Summer/Fall sessions only). Attendees can opt out of the additional charges when they register for Orientation, but it is important to note that changes cannot be made on-site and must be made in advance.

Late Registration Fee: $100.00. A late registration fee is assessed when a student does not begin registration during the time provided under the academic calendar.

Late Payment Fee: $100.00. A late payment fee is assessed against students who do not pay their tuition in full by the required due dates (see the "Academic Calendar" in this *General Bulletin*).

FSUCard Term Fee: An FSUCard semi-annual fee of $5.00 is assessed to students each Fall and Spring semester based on campus and location.

Replacement FSUCards: $15.00. A fee for the preparation of a new card is assessed against those students, including high school students, who lose their FSUCards.

Duplication/Photocopying Fee: At cost. A fee is assessed for duplicating or photocopying documents.

Standard Tests Fee: At cost. A fee is assessed for test materials and related factoring or grading charges levied by an external agency used in standardized tests, such as the Graduate Record Examinations.

Transcript Fee: $10.00. This fee is assessed for each official transcript issued.

Installment Contract Fee: $10.00 per contract. This fee is assessed for executing an installment contract for tuition payment available during Fall and Spring semesters only.

Transportation Access Fee: $8.90 per credit hour. **Rate subject to change.** This fee is assessed per credit hour to all main campus students. It covers all modes of transportation on campus such as sidewalks, bikes, mass transit (on- and off-campus buses), and vehicles. Revenue generated by this fee is used to improve the overall infrastructure of campus for all students. For additional information about parking locations, rules, regulations, and rates, go to *http://transportation.fsu.edu*.

Returned Check Charge/Stop Payment Charge: $25.00 or five percent (5%) of the amount of the check, whichever is greater (rate subject to change). A returned check/stop payment charge is assessed against the account of a student who has a check or electronic authorization for payment returned by the bank to Florida State University. Florida State University automatically submits all personal checks twice for payment if the check was returned once for insufficient or uncollected funds. This is an automated process, and the second submission cannot be stopped; however, there is no charge assessed by Florida State University for this second submission.

Returned check charges are assessed for all personal checks written and electronic payments authorized for tuition, fees, or any services provided by the University that are returned to Florida State University for insufficient funds, uncollected funds, wrong account numbers, closed accounts, and stop payments placed on checks. In addition to the returned check charge, if the initial payment is for tuition and redemption of the returned item is not made prior to the tuition payment deadline, a late payment fee is assessed to tuition and student may be subject to tuition cancellation. Florida State University places a hold on accepting any personal checks or electronic payment authorizations from anyone on the student's account for ninety days after redemption for any services, tuition, or fees that are owed to the University if a personal check or electronic payment is returned. Redemption must be paid with cash, money order, or cashier's check. If a second check is returned or a stop payment is placed on it, the student will be permanently listed on all departments' ACCEPT CASH ONLY list, and **no personal checks will be accepted from anyone on the student's account from that day forward.**

Notification will be sent to the student via mail to the address on the check or to the last maintained address in Florida State University's records. A copy of the notification letter will be sent to the maker of the check at the address on the check, if the student is not the person on whose account the funds are drawn. After notification that a check has been returned, redemption including the service charge must be made by seven working days with cash, money order, or cashier's check. Florida State University forwards all returned checks to the State Attorney's office for redemption and prosecution after collection efforts are exhausted. After a returned check is forwarded to the State Attorney's office, redemption of the check will not prevent prosecution.

Thesis, Treatise, and Dissertation Fees: All Thesis, Treatise, and Dissertation students are required to submit their manuscripts to ProQuest directly. There is no fee associated with traditional publishing. Students may choose to pay a copyright fee, an open access fee, or may order bound copies, if desired.

- **Copyright Fee:** Optional through UMI/ETD at cost.
- **Open Access Fee:** Optional through UMI/ETD at cost.

Loss and Damage Fees: At cost. Students who lose or damage equipment may be assessed a breakage or loss fee to pay for breakage or loss of equipment. Upon completion of the course, the instructor will prepare a listing of the cost of all such lost and damaged equipment and assess the student a loss or damage fee. The charge varies, based on the cost of the item, and generally applies to students taking laboratory courses.

Scientific Laboratory Fees: Varies. Students enrolled in certain laboratory courses are assessed a fee that is used to offset the cost of scientific materials or items consumed in the course of the students' laboratory activities. These fees are assessed based on the course.

Library Fees

Note: All fees subject to change.

	Overdue Fees	Replacement Fees
Books		Billed for replacement cost at 30 days overdue, or damaged
Failure to Return Recalled Items	$0.25 per day	Billed for replacement cost at 30 days overdue, or damaged
Interlibrary Loan	Cost determined by the loaning library	Cost determined by the loaning library
Reserves	$3.00 per hour	Billed for replacement cost if lost or damaged
Videos	$0.25 per day	Billed for replacement cost at 7 days overdue, or damaged
Laptops	$10.00 per hour	$1,800 replacement cost if lost or damaged
Laptop Power Cords	$5.00 per hour	Billed for replacement cost if lost or damaged
Headphones	$0.25 per hour	Billed for replacement cost if lost or damaged
Study Rooms	$10.00 per hour	
Study Room Supplies	$0.25 per hour	SMART board pens: up to $50.00 VGA/USB cables: up to $50.00 Speakers: up to $400.00 SystemOn Module: $150.00

Housing Costs

For complete descriptions of housing facilities, services, costs, and how to contract for University Housing, refer to the "Housing" chapter of this *General Bulletin*.

Annual Estimate of Cost

The annual estimated costs listed below are for the 2019–2020 academic year and do not include Summer tuition and related expenses. The estimate is taken from the Office of Financial Aid Web site *at https://financialaid.fsu.edu.* **Note:** International students should refer to *https://cge.fsu.edu/international-students/new-students/step-2-obtain-your-form-i-20* for an estimated cost of attendance.

Undergraduate	Florida Residents	Non-Florida Residents
Tuition/Fees[1]	$5,666	$18,796
Housing[2]	$6,540	$6,540
Food[3]	$4,240	$4,240
Books/Supplies	$1,000	$1,000
Personal/Health Insurance[4]	$3,830	$3,830
Transportation	$1,180	$2,398
TOTAL	$22,456	$36,804

1 The tuition and fee estimate is based on thirteen semester hours for undergraduate students attending two terms (Fall and Spring) per year at the Tallahassee campus. Refer to the Student Business Services Web site at *https://studentbusiness.fsu.edu/* for tuition rates for all campuses or specific programs.

2 Students at the Tallahassee campus may refer to *https://housing.fsu.edu* for on-campus rental rates.

3 Refer to *https://seminoledining.sodexomyway.com/* for all meal plan options.

4 Students who currently have health insurance may show proof of comparable coverage and may not be required to purchase the University policy. Refer to *http://www.uhs.fsu.edu* for additional information.

Payment of Fees

Payment of registration fees and tuition detailed below is an integral part of the registration process. Registration (including payment of fees) must be completed on or before the proper due date. The appropriate University office must be provided a properly executed authorization to defer fees prior to the deadline published in the academic calendar in those cases where fees are to be paid by a previously approved loan, scholarship, or other third-party arrangement. Florida Prepaid College Program does not pay the full amount due, nor do Intern Participation Certificates. Students must pay the remaining balance due by the published deadline.

Method of Payment

Students who enroll must pay fees and tuition in full or initiate an installment contract by the tuition payment deadline. We encourage students to submit their third-party agency billings as soon as they have registered for classes. All waivers, agency billings, and department billings for all students must be submitted by the third day of the term. Financial aid deferments will be entered by the Office of Financial Aid for eligible student accounts. If tuition is not paid or arrangements have not been made by the posted deadlines, a late payment fee will be assessed. Any course added after the tuition payment deadline must be paid in full within five days or a $100.00 late payment fee will be assessed. The University does not send out a paper bill because students may change their course schedule and therefore the amount owed through the fourth day of the semester will be inaccurate. Tuition and fees should be paid by the fee payment deadline as posted at *http://studentbusiness.fsu.edu/*. Note that other University related fees have separate and earlier deadlines. Students can, however, get the amount of their tuition and fees due on the Internet at *http://my.fsu.edu* (from ***myFSU Portal***, click, Student Central, My Bill, ***$ Make a Payment***) or when they register for classes through the Web. Other options include accessing the kiosks located on the first floor of *University Center A Building*, calling the Office of Student Business Services at *(850) 644-9452*, or going to *A1500 University Center*, 8:30 a.m.–4:30 p.m. Monday–Friday.

Students may pay by check, cash, money order, cashier's check, or FSUCard when paying in person. Florida State University does not accept two-party checks or foreign checks for payment. Make checks payable to Florida State University and include one of the following on your check: your EMPLID, the last four digits of your social security number, or your FSU e-mail address, your driver's license number, as well as your local phone and address. We accept FSUCards, American Express, Discover, MasterCard, Visa, and electronic checks via Internet only. Payment methods are described below. Credit card payments can only be made through the Internet at *http://www.fees.fsu.edu*, Student Central at *http://www.my.fsu.edu*, or at kiosks located around campus. There is a 2.3% scaling nonrefundable fee for each transaction.

Installment Contracts. The Student Business Services Tuition Installment Contract is the only form of tuition payment plan that the University offers. This plan is only available in the Fall and Spring terms. Through this plan, students must pay half (tuition and fees greater than $150.00) of their currently owed tuition, plus a $10.00 Installment Contract Fee, by noon on the main campus tuition payment deadline. The second half of the installment payment is due by the sixth week of class. The installment contract agreement may be executed in person or by calling Student Business Services. Failure to pay the balance of tuition by the due date will result in a late payment fee and a financial hold on your account and may result in the cancellation of your course schedule. Once an installment contract is executed, any course added at a later date must be paid in full within five days. It will not be covered under the previously executed contract. Failure to pay tuition in full for such a course will result in the assessment of a late payment fee.

Convenient Drop Box for Payments. The Office of Student Business Services has kiosks for student use at the first floor of the *University Center Building A*, near our office at *A1500*. Students may verify the amount due for tuition and fees (at the kiosks or through the Internet at *http://www.fees.fsu.edu*), insert a check, money order, or cashier's check in the provided envelope, and put the envelope in the drop box. Payments are processed the next business day. Payments received in the drop box by 4:30 p.m. on the tuition payment deadline will be considered on time. Payments inserted after 4:30 p.m. will be considered late and assessed a $100.00 late payment fee. Please do not deposit cash. We will not process foreign checks or two-party checks. Make checks payable to Florida State University and include **one** of the following on your check: your EMPLID, the last four digits of your social security number, or your FSU e-mail address, driver's license number, as well as your local phone and address. Checks not completed properly will be considered late.

Mail-In Tuition and Fee Payments Must Be Received by the Deadline. When paying fees by mail, send a personal check, money order, or cashier's check for the full amount of fees due. Please do not send cash. Checks not received by the tuition payment deadline will be considered late and will be assessed a $100.00 late payment fee. We will not process foreign checks, checks not completed properly, or two-party checks. Make checks payable to Florida State University and include **one** of the following on your check: your EMPLID, the last four digits of your social security number, or your FSU e-mail address, your driver's license number, as well as your local phone and address.

Checks not properly completed will be considered late. Payments should be mailed to *Florida State University, Office of Student Business Services, A1500 University Center, Tallahassee, FL 32306-2394*.

Agency Billing. Students are responsible for all tuition and fees upon registration. Forms are available at *https://studentbusiness.fsu.edu/*. Students who are requesting their tuition be paid by an agency must submit the required documents as soon as possible, but no later than the third day of the semester, and preferably thirty days in advance. Those students receiving financial aid should submit the documents by the third day of the semester; otherwise, tuition will be deducted from the student's financial aid and refunds will not be made to the student until the agency or department makes their payment to the Office of Student Business Services. Financial aid students must report this payment as an income source on their application, or upon further evaluation by the Office of Student Financial Aid, the student may be "over-awarded" and may be required to repay financial aid to the University. If the agency or department has not paid the tuition by the end of the current semester, a late payment fee of $100.00 will be assessed to the student's account and the student is required to pay it before being granted other University services. Accounts left unpaid at the end of the semester will be put in a delinquent status and the student will not be able to receive University services (registration, transcripts, diplomas, etc.) Agencies that do not pay in a timely manner may cause the Office of Student Business Services to put the student's account in a non-billing status for subsequent semesters; consequently, the student will be required to pay tuition by the regularly scheduled deadline, and the University will refund to the student the amount that the agency pays (less University charges) after they have paid it. Students with agency payments that are contingent upon grade(s) received are not eligible for agency billing, and tuition must be paid by the regularly scheduled deadline. The Office of Student Business Services does not bill agencies for housing, books, meals, etc.

Departmental Billing. Departmental billings must be submitted to the Office of Student Business Services by the appropriate college or school by the third day of each semester. Financial aid students must report this payment as an income source on their application, or, upon further evaluation by the Office of Student Financial Aid, the student may be "over-awarded" and may be required to repay financial aid to the University. For information regarding departmental billings, undergraduate students should contact the Office of Faculty Development and Advancement at *(850) 644-6876*; graduate students should contact the Dean of the Graduate School at *(850) 644-3501*.

State Employee Tuition Waiver

Full-time state employees may use the state employee tuition waiver to register for Florida State University classes. Registration in classes using the state employee tuition waiver is limited to a space-available basis. Individuals using the state tuition waiver must be fully admitted degree-seeking or non-degree students. Florida State University does not consider the following to be space-available courses: remedial courses; dissertation, thesis, and directed individual study (DIS) courses; internship courses; Center for Academic and Professional Development (CAPD) courses; College of Medicine courses; College of Law courses; other one-to-one instruction courses; and all non-state funded courses (including some distance learning courses that are funded solely by student tuition and fees). Please contact the academic department to inquire about course funding. Accordingly, state employee tuition waivers may not be used for these courses.

Florida State University accepts only the official FSU State Employee Tuition Wavier form. Agencies may require additional paperwork or forms that will not be accepted at Florida State University unless accompanied by the FSU State Employee Tuition Waiver form.

State employees using a tuition waiver must complete the registration process and submit the tuition waiver to the Office of Student Business Services.

Panama City Campus

Students who intend to enroll at the Panama City campus of Florida State University may pay their fees at: *Cashier's Office, 4750 Collegiate Drive, Panama City, FL 32405*. Students may pay by check, cash, money order, or cashier's check when paying in person. Credit card payments can ONLY be made via the Internet at *http://www.fees.fsu.edu* or by logging into *http://www.my.fsu.edu* and visiting Student Central. There is a non-refundable scaling fee of 2.3% for each transaction. Accepted forms of online payment include: American Express, Discover, MasterCard, and Visa. Electronic check payments are free of charge. For further information, please call *(850) 770-2119* or e-mail *cashier@pc.fsu.edu*.

Florida Prepaid College Program

This program was created by the State of Florida to guarantee payment of tuition and may include optional dormitory contract guarantees and an optional local fee plan, and differential fee plan (note: the differential fee is waived for semesters during which plans contracted in summer of 2007 or earlier are billed). **The primary plan pays the rate the University assesses for tuition (i.e. the matriculation fee), plus student financial aid and capital improvement fees, but excludes local fees (i.e. athletics, activities and services, student health) unless the local fees plan was purchased.** Additionally, there are fees that no Florida Prepaid plan covers, including laboratory and equipment fees, transportation access, technology, student facilities use fee, online class fees, and books. Fees not covered by Florida Prepaid must be paid by the student using one of the options described above and by the deadlines stated above. The student is to verify that the billing is being processed by reviewing the FSU bill available at *http://my.fsu.edu*. **Students using the Florida Prepaid College Program are responsible for paying any fees not covered by Florida Prepaid by the tuition payment deadline or they will be assessed a $100.00 late payment fee. (Rate subject to change).** Additional information may be obtained by writing: *Florida Prepaid College Program, P.O. Box 6448, Tallahassee, FL 32314-6448;* by calling *1 (800) 552-4723*; or by visiting *http://www.myfloridaprepaid.com/*.

Fee Liability

Liability is incurred for all credit hours at the time of registration for classes. The student is responsible for dropping classes or withdrawing from school. For more information on policies regarding attendance and schedule cancellation, please refer to the section on 'Cancellation of Student Schedules for Non-Payment of Tuition and Fees'. Out-of-state tuition and matriculation fee waivers will not cover dropped or withdrawn classes.

Repeat Course Surcharge

Section 1009.29, Florida Statutes, mandates that each student attempting the same non-repeatable undergraduate course more than twice beginning with the Fall Semester 1997 shall be assessed an additional per credit hour surcharge beginning with the third attempt. Attempted hours include those hours dropped, withdrawn, and repeated that are fee liable. Undergraduate level courses are numbered 1000 to 4999.

The repeat course surcharge is subject to change annually based upon calculations by the Florida Board of Governors.

The only exceptions:

- Any course taken prior to Fall 1997;
- Attempts taken at an institution other than FSU;
- Graduate level courses (courses numbered 5000 and above);
- Any non-fee-liable course dropped or withdrawn;
- Courses taken through cooperative education, military, waivers, and audits; and,
- Individualized study, courses that are repeated as a requirement of a major, and courses that are intended as continuing over multiple semesters. However, courses repeated more than two times to increase GPA or meet minimum course grade requirements are eligible for the surcharge.

Repeat Course Surcharge Appeal

Section 1009.285, Florida Statutes, provides authority to universities to consider appeal of the repeat course surcharge based on documented evidence of financial hardship. Appeal forms are available in the Office of the University Registrar, *A3900 University Center, Tallahassee, Florida 32306-2480, (850) 644-3403*. Appeals must be submitted to the Office of the University Registrar no later than the last day of classes for the term in which the surcharge is assessed.

Excess Credit Hour Surcharge

Section 1009.286, Florida Statutes, mandates that each student shall be assessed an additional per credit hour charge equal to fifty percent or one hundred percent of the tuition for each hour in excess of a specified percentage of the total number of credit hours required to complete the baccalaureate degree, depending on their first term of enrollment in a post-secondary institution. This law is in effect for students who began their postsecondary education at any institution Fall 2009 or later. Any break in continuous enrollment requiring readmission or reinstatement may cause the student to be subject to current legislative Excess Credit policies and fees.

Post-secondary Start Term	Surcharge Percentage	Excess Hours Threshold
Fall 2009	50%	120%
Fall 2010	50%	120%
Fall 2011	100%	115%
Fall 2012	100%	110%

Credit hours earned under the following circumstances are included in the calculation of the threshold for surcharge assessment, unless they otherwise meet one of the exception criteria provided for in statute:

All enrolled classes including,

- Failed courses;
- Hours dropped after the Universities' drop/add period;
- Courses for which a student withdraws;
- Repeated courses, except repeated courses for which the student has paid the repeat course surcharge as provided in Section 1009.285, Florida Statutes;
- All credit earned at another institution and accepted for transfer and applied toward the baccalaureate degree program.

Credit hours earned under the following circumstances are not included as hours earned toward the baccalaureate degree for purposes of determining the threshold for surcharge assessment. They may otherwise count toward and satisfy university, college, or departmental hour requirements according to University policy.

- College credit earned through articulated accelerated mechanisms such as AP, IB, CLEP, dual enrollment, national standardized tests (ACT or SAT), etc. as defined in Section 1007.27, Florida Statute;
- Credit hours earned through internship;
- Credit hours required for certification, recertification, or certificate programs;
- Courses from which the student withdraws for reasons of medical or personal hardship;
- Credit taken by active-duty military personnel;
- Credit hours taken to achieve a dual major while pursuing a baccalaureate degree;
- Remedial and English-as-a-second-language credit hours;
- Credit hours earned while participating in a Reserve Officer's Training Corps (ROTC) program.

Students have one year from the first term of enrollment at FSU to appeal the initial excess credit hour determination.

Delinquent Fees

Students who have amounts owed to the University may not complete their registration, receive a diploma, receive an Associate of Arts degree, or receive a transcript until all amounts owed to the University have been satisfactorily settled. This includes, but is not limited to, library charges, health center charges, parking fines, and University debt. All payments will be applied to the current tuition first and then to the oldest outstanding debt. Nonrefundable collection fees, as well as legal fees and interest assessment through court judgments, are added to a student's account if the student has had an outstanding debt for 120 days or longer. When an account is sent to a collection agency, the customer must make payment arrangements directly with the agency. Payment arrangements do not permit student privileges such as registration, official transcripts, etc. Accounts must be paid in full to obtain further privileges.

Registration Stop for Outstanding Charges

A "stop" is placed on all academic progress for those students who have outstanding charges due to the University. Students owing an amount equal to or greater than $500.00, including current semester tuition, are not permitted to register for classes. The "stop" will not be removed, and such students will not be permitted to register or receive other University services, until the debt is cleared. A hold on transcripts and diplomas will be placed on students for outstanding charges of any amount.

Cancellation of Student Schedules for Non-Payment of Tuition and Fees

In accordance with Florida State University Regulation 5.081 *Tuition, Fees, Payment*, students who do not pay tuition and fees or make arrangements to pay tuition and fees by the end of the established fee payment deadline may have their schedules cancelled and academic progress discontinued for the semester. Students will be notified using their FSU e-mail account concerning outstanding tuition delinquencies and given an opportunity to pay tuition and fees or make arrangements for tuition and fee payment with the Office of Student Business Services prior to cancellation. Students whose schedules are cancelled for non-payment of tuition and fees will have their academic progress discontinued for the term in question and will not be able to attend class or receive grades. For more information, please reference FSU Adopted Regulations, Chapter 5 - Academic Matters available at *http://regulations.fsu.edu/regulations/adopted-regulations*.

Reinstatement of Student Schedules Cancelled for Non-Payment of Tuition and Fees

Students whose schedules are cancelled for non-payment of tuition and fees may appeal to the University Registrar for reinstatement and continuation of academic progress for the term. A written appeal must be submitted to the University Registrar by the end of the seventh week of classes as identified in the University Academic Calendar (consult the *Registration Guide* for deadline dates). Prior to a student's appeal being approved, the Office of Student Business Services must verify that payment for the current term has been received or that appropriate arrangements have been made for tuition and fee payment. Students whose schedules are reinstated are subject to a $100.00 late registration fee and a $100.00 late payment fee. Check or credit card payments that are returned or refused will negate any tuition payment agreement for the reinstatement of a student's schedule. The University reserves the right to deny reinstatement when a demonstrated pattern of tuition delinquencies over two or more semesters has occurred.

Note: The appeal must be submitted by the seventh week deadline for the term that was cancelled. Appeals received during the next term, for a prior term's cancellation, will be deemed to have missed the deadline and may not be considered.

Tuition Waivers, Deferments, and Financial Arrangements

Out-of-State

In the interest of the general welfare of the State of Florida, and in order for Florida to contribute to the fulfillment of national and international obligations, the State Board of Education authorizes the University to waive portions of out-of-state tuition for a limited number of students in specific categories. Students in the following categories may apply:

- Out-of-state graduate students having at least a one-quarter time assistantship (teaching or research) or a fellowship equivalent in value to at least a one-quarter time assistantship
- Foreign student programs, or student exchange programs
- Students having special skills in music, dance, theatre, or athletics
- Graduate students with outstanding academic credentials and abilities

Special and part-time students at the undergraduate and graduate level are not eligible for out-of-state tuition waivers. Tuition waivers must be submitted by the appropriate college or school preferably by the fourth day of each semester but definitely no later than the fifth class day of the semester. **Tuition waivers do not cover the total amount of fees due and may have an effect on financial aid awards.** For information regarding out-of-state waivers, undergraduate students should contact the Vice President for Faculty Development and Advancement; graduate students should contact the Dean of the Graduate School. Tuition and fees not covered by waivers must be paid in full by the deadline as posted at *http://studentbusiness.fsu.edu/*.

Military Veterans, Service Members, and Their Dependents

For information regarding out-of-state tuition waivers for military veterans, service members, and their dependents, please see the Student Veteran Information chapter in this Bulletin.

Florida Residents Over 60 Years of Age

When registering to audit courses not for credit, all fees are waived for citizens sixty years of age and older who are Florida residents. All requirements pertaining to auditing courses must be met, and, in addition, proof of age and residency must be presented. For further information, refer to the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

Note: Audited courses do not earn credit hours or appear on a student's permanent record.

Waiver of Late Fees

A student may request a waiver of the late registration fee at the Office of Student Business Services. Documentation supporting University error or extraordinary circumstances will be required.

A student may request a waiver of the late payment fee at the Office of Student Business Services if payment was not made by the established deadline because of a University error, administrative error, or extraordinary circumstances beyond the control of the student. Supporting documentation is required.

Note: Lack of funds, not applying for financial aid on time, or not being aware of the payment deadline are not valid reasons for waiving the late fee. Request

to waive late payment fees must be made by completing a waiver request form available online at *https://studentbusiness.fsu.edu*. If the request is denied, the student may appeal to the Late Payment Fee Appeals Committee by contacting the Office of Student Business Services at *(850) 644-9452*. The committee meets once a month or as needed.

The **Late Payment Fee Appeals Committee**, which consists of representatives from the Office of the University Registrar, Office of Financial Aid, and the Office of Student Business Services, provides an opportunity for students to appeal a denial of their request for a late payment waiver. The appeals committee's decision is the final step in the University's late payment appeal process. Forms are available at *https://studentbusiness.fsu.edu*.

Deferments and Financial Arrangements

Financial aid is disbursed early in the semester. Students must pay or make arrangements to pay all fees due by the tuition payment deadline.

Financial aid deferments are authorized by the Office of Financial Aid. Departmental billings are authorized by the school or college issuing the billing. Agency billings are authorized by the approved agency to pay fees on behalf of the student. The third party billings are to be completed by the student at *A1500 University Center* no later than the third day of the term. Outstanding tuition from a previous semester will be deducted from financial aid received during a current semester. A refund will not be processed until payment is made by the agency or department. Agency billing forms are at *https://studentbusiness.fsu.edu*.

Veterans Deferments. For information regarding out-of-state tuition waivers for military veterans, service members, and their dependents, please see the Student Veteran Information chapter in this *Bulletin*

Application Fee

Individuals who submit an application to Florida State University shall pay a nonrefundable application fee of $30.00. First year in college students who submit an application via the Coalition or the Common Application also pay an additional $5.00 processing fee. Accepted application fee waivers include a fee waiver from the American College Testing (ACT) Program, the College Board (SAT), or the National Association for College Admission Counseling (NACAC). Students that are Pell eligible or qualify for free and reduced lunch are also eligible to receive a waiver of the application fee. Graduate applicants in designated sponsored programs may also be eligible for a waiver of the application fee.

Refund of Fees

Regulations Concerning Refund of Fees Paid

Students incur a liability for all credit hours that remain on their schedule of courses as of the end of the official drop/add period. The amount of this liability is identified on the Student Assessment Payment Schedule. Any amount paid in excess of the amount owed (assessed fee and outstanding University charges) during the term will be carried forward and will be applied against subsequent University charges incurred or may be refunded by request.

Full refunds of tuition fees may be granted in instances of withdrawal from the University under the following conditions:

1. Involuntary call to active military duty
2. Death of the student or death in the immediate family (parent, spouse, child, sibling)
3. Illness of the student of such duration or severity, as confirmed in writing by a physician, that completion of the term is precluded
4. Cancellation of the course by the University
5. Exceptional circumstances that could not have been foreseen and were beyond the control of the student, as approved by the University refund committee.

Students who drop a course without fee liability after their tuition and fees are paid may be eligible for a tuition refund. Any amount paid in excess of the amount owed to the University during the semester/term will be carried forward and may be applied against subsequent University charges incurred or will be refunded upon request; however, **any outstanding charges owed to the University will be deducted and the balance will be issued as a refund.** The refund will be processed as a credit to the student's direct deposit bank account or by check when required. Payments made by credit card will be refunded to the payment card. Refunds requested during the fiscal year close-out, during the last two weeks of June, will not be processed until the first week of July.

Students who withdraw after the fourth day of the semester/term but prior to the end of the fourth week of the semester (or for Summer sessions by the first twenty-five percent of the term) are eligible for a twenty-five percent refund of tuition and fees. After this period, students who withdraw are held fully liable for fees. Students who withdraw and have received federal financial aid (Title IV programs), state or university aid may be required to repay to the aid source the amount of unearned financial aid funds disbursed to them as of their withdrawal date as described in the section on 'Withdrawals and Return of Financial Aid.'

Note: In the case where a withdrawal petition is approved, a refund can only be provided **if the refund withdrawal request is submitted and completed within six months after the end of the semester/term in which the withdrawal occurred.** If financial aid is received by the student during the term in which the refund is granted, state and federal regulations may require that the refund be returned to the aid source.

An application for a request for refund of fees should be submitted as follows:

- **Food Plan.** *Director of Food Services, 144 Oglesby Union*
- **Housing Fees.** *Assistant Director of Housing for Contracts and Assignments, 109 Student Life Building*
- **Parking Decals.** *Director of Transportation & Parking Services, 104 North Woodward Avenue*
- **Textbooks.** *Manager of Florida State University Bookstore, Parking Garage, Main Level*

Withdrawal and Return of Financial Aid

Per federal regulation (34 CFR 668.22), students who withdraw and have received financial aid will be required to repay to the program sources the amount of unearned financial aid funds disbursed to them as of their withdrawal date. The unearned amount of program funds is calculated based on the last date of academic activity, which indicates the percentage of the semester completed.

Both the University and students receiving financial aid are required to return unearned financial aid to the aid source. Title IV aid programs are repaid in the following order: Unsubsidized Stafford/Direct loans, Subsidized Federal Stafford/Direct loans, Federal Perkins Loans, Federal PLUS/Direct PLUS loans, Federal Pell Grants, Federal Supplemental Education Opportunity Grant (FSEOG) Program, and Teach Education Assistance for College and Higher Education (Teach) Grants.

The University is required to return the unearned portion of the financial aid funds it received from withdrawing students that was used to pay institutional charges such as tuition, fees, housing, and other education-related expenses assessed by the institution. The funds returned to the aid source by the University will be credited against the students' total liability of unearned funds. **Students will owe the University the amount returned to the aid source for institutional charges.** In addition, any student who receives Title IV funds who stops attending classes during the semester and does not officially withdraw from the University is considered an unofficial withdrawal according to Title IV federal regulations. The University is required to return unearned financial aid to the federal government for all unofficial withdrawals in the same manner as students who withdraw officially.

Students who owe grant overpayments remain eligible for Title IV program funds for forty-five days if, during those forty-five days, the student: 1) repays the overpayment in full to the University; 2) enters into a repayment agreement with the University; or 3) enters into a repayment agreement with the Department of Education. Entering into a repayment agreement does not mean the student is eligible to register for additional classes, receive a transcript, diploma, etc. Students can lose financial aid eligibility if they do not comply with the options above and should consider their repayment responsibilities for these programs as part of any withdrawal decision.

Bright Future Repayment Requirement

Florida Statute requires that students who drop or withdraw from any course(s) must repay any Florida Bright Futures Scholarship disbursed for the course(s). However, a student who receives an award under this program and subsequently drops one or more courses or withdraws from all courses after the end of the drop and add period due to a verifiable illness or other documented emergency may be granted and exception pursuant to s. 1009.40(1)(b)4., **unless the institution's policy is to refund the cost of the courses.**

Financial Aid

Director of Financial Aid: Somnath Chatterjee

General Information

Florida State University recognizes the high cost of education today and makes every effort to offer financial assistance through a variety of programs to qualified students. In addition to providing funds on the basis of demon-

strated financial need in the form of grants, work-study offers, and loans, the University offers scholarships to recognize and reward talent, academic achievement, and meritorious performance.

The Office of Financial Aid is committed to serving and guiding students through the process of applying for financial aid. Help in completing the Free Application for Federal Student Aid (FAFSA) is available from professional financial aid counselors located in the *University Center Building A, Room 4400*.

After a student completes the FAFSA and is admitted, the financial aid status should be monitored by visiting *http://www.my.fsu.edu/*. This site also provides information on any outstanding documents required to complete the financial aid file. Upon admission and completion of the financial aid file a student's financial aid offer may also be found on this site.

The hours of operation for the Office of Financial Aid are 8:00 a.m. to 5:00 p.m., Monday through Friday. Counseling is available by phone at *(850) 644-0539* or at the information center *A4400 University Center*, Monday through Friday, 8:00 a.m. to 5:00 p.m.

Panama City Campus

Students who intend to enroll at the Panama City campus and are in need of financial support should contact: *Coordinator for Financial Aid/Veteran Affairs, Office of Student Affairs, 4750 Collegiate Drive, Panama City, FL 32405*, or by phone at *(850) 872-4750*.

Undergraduate Students

Undergraduate students may apply for many types of aid, including scholarships, grants, work study, and loans. To apply for federal and state grants, federal work-study and/or federal loans, students must complete the Free Application for Federal Student Aid (FAFSA) at *https://studentaid.ed.gov/sa/fafsa*. Students who have previously completed a baccalaureate degree may not be eligible for all types of aid when seeking a second undergraduate degree.

Eligibility

Financial aid offers have eligibility requirements. Please see Financial Aid Terms and Conditions for specific award requirements. Visit *https://financialaid.fsu.edu/* for additional information.

Deadlines

The federal financial aid application period for the 2020–2021 year begins October 1, 2019, and ends June 30, 2021. Some federal and institutional grant funds and federal work-study funds are limited, so students are encouraged to apply as soon as possible after October 1, 2019.

This application is valid for Fall 2020, Spring 2021, and Summer 2021.

Financial Aid Application Process

To apply for federal, state, and institutional aid at Florida State University, students must complete the Free Application for Federal Student Aid (FAFSA). Students are encouraged to apply online at: *https://studentaid.ed.gov/sa/fafsa*.

To apply, the following materials will be necessary to complete the data required:

- The student's social security card and driver's license
- W-2 forms or other records of income earned (Student and Parent)
- Student's and student's spouse's (if married) or Parent(s) Federal Income Tax Return
- Records of other untaxed income received, such as welfare benefits, social security benefits, TANF, and military or clergy allowances
- Current bank statements and records of stocks, bonds, and other investments
- Business or farm records, if applicable; and
- Student's alien registration card, if student is not a U.S. citizen.

Note: Students may apply for financial aid before being admitted to Florida State University, but while early application for aid is recommended (as soon as possible beginning October 1), a student cannot be awarded aid until he/she is officially accepted for admission to Florida State University.

Loan Entrance Counseling Sessions and Master Promissory Note

Federal regulations require all students receiving a Federal Stafford/Subsidized Loan or Federal Stafford Unsubsidized Loan to participate in a loan entrance counseling session and endorse a master promissory note prior to receiving the first distribution of the loan. No Federal Stafford loan can be disbursed until this requirement is met.

A student accepting a loan award for the first time at Florida State University can complete the loan entrance requirement by accessing the Federal Department of Education Web site at *https://studentaid.gov/h/manage-loans* and clicking on the loan entrance counseling and the master promissory note links. Students will need their Federal Student Aid ID (FSA ID) to access their profile. Students can obtain a FSA ID by visiting *http://fsaid.ed.gov*. The student will be asked to provide certain information, including reference addresses for future use. Students are strongly encouraged to print a copy of the completed confirmation page to retain for their records. Students who prefer an alternative format or who have questions about loans, the loan entrance counseling, or the master promissory note information process may contact the Office of Financial Aid.

Fees and Financial Aid Students

Financial Aid Payments & Refunds: When financial aid is processed to the student's account, the University first applies financial aid payments towards tuition and housing charges (and towards other charges as allowed) before issuing refunds. Financial aid is processed to accounts beginning with the published disbursement dates and continues through the semester. For more information and upcoming dates, visit *https://studentbusiness.fsu.edu/*. To receive your aid, you must comply with Financial Aid Terms and Conditions located at *http://financialaid.fsu.edu/Terms-and-Conditions*. You must also confirm that your financial aid file is complete prior to disbursement by checking your status and clearing any holds or to-do list items at *https://my.fsu.edu*. Financial aid refunds are sent by Electronic Funds Transfer (EFT) to any US-based bank account, so students must designate a refund bank account and enroll in direct deposit to receive a refund of excess Financial Aid or a refund of financial aid that cannot be applied to University charges. Additionally, the University must receive written permission to apply federal financial aid to charges other than tuition and housing and federal aid cannot be applied to excess-hours fees. For instructions on how to provide that permission, or for direct deposit enrollment instructions, see *https://studentbusiness.fsu.edu/*.

If you have any questions, please call the Office of Student Business Services at *(850) 644-9452*. For financial aid questions, please contact the Office of Financial Aid at *(850) 644-0539*.

Deadline: If the financial aid payment is not sufficient (or allowed) to cover all charges, or if a student's schedule, university bill, or financial aid offer changes after application of financial aid, then the student is responsible for paying the balance by the tuition payment deadline, (see the "Academic Calendar" in the *Registration Guide*). After this date, a $100.00 late payment fee is assessed and grades will be held at the end of the semester until fees are paid in full.

Note: Financial Aid students who are having their tuition paid by an agency, department billing, or Florida Prepaid College Program should submit the required documents no later than the third day of the semester (see the "Academic Calendar" in the *Registration Guide*). The basic Florida Prepaid College Program does not pay the full amount of tuition owed to the University, nor do Intern Participation Certificates. Students must pay the remaining balance due by the posted payment due date.

Deferments, Loans, and Check Cancellation

Deferments

Students must confirm their application is complete by the first week of the semester by going to *http://my.fsu.edu* and viewing their Financial Aid. Students may qualify for a deferment or extension of the tuition due date if they are awarded financial aid that is not disbursed by the published tuition deadline. Students who have been awarded aid (and in the case of loans, have accepted aid) sufficient to meet their tuition cost and who have submitted all To-Do-List items may receive an automatic extension of the tuition deadline if their aid is not disbursed by the published deadline. Students should review their Student Account Invoice after the end of Drop/Add and before the published tuition deadline to determine if all aid has been applied, or to check to see if the tuition deadline has been extended. If tuition is still owed by the initial published deadline and aid is still pending, students should contact the Office of Financial Aid prior to the tuition payment deadline.

Financial aid students who do not receive a financial aid deferment or extension must pay their tuition in full by the tuition payment deadline. See the dates published in the "Academic Calendar" included in the *Registration Guide*. Failure to pay by the published deadline will result in a late payment fee assessment.

Note: Financial aid deferments expire before the end of the semester. See the *Registration Guide* for the expiration date. Students must confirm that their financial aid has arrived and all requirements have been met by the deferment expiration date. Go to *http://my.fsu.edu* (from ***Student Account Quicklinks***, click ***Account Statement***). You will then see your courses and fees detailed. With your temporary deferment, your total balance may show ($0.00) for the Current Term Tuition. When your financial aid arrives, the screen will show how much has been paid toward your tuition. You must ensure your financial

aid pays your tuition in full by the deferment deadline. If you have questions, contact *studentbusiness@fsu.edu* or *(850) 644-9452*. If the student's financial aid is not available by the expiration date, it is the student's responsibility to pay tuition in full. Failure to pay by the expiration date will result in a late payment fee assessment of $100.00, and your schedule for the next semester may be cancelled. Additionally, registration will not be permitted and transcripts and diplomas will not be mailed until debts are paid in full.

Short Term Loans

Students in need of funds as a result of financial aid being delayed may apply for a short-term loan (also known by the name delayed delivery loan) by contacting the Office of Financial Aid. Eligibility for the loan will be determined by the type of aid awarded and the hours enrolled. Accounts in delinquent status (past due) are not eligible for loans. Short term loans will be disbursed approximately 1–2 business days after the loan has been approved and disbursed according to the disbursement method indicated on the student's disbursement permissions. Students must have either paid or deferred their full amount of tuition by the tuition payment deadline in order to be eligible for short term loans. Short term loans are due when the financial aid arrives, or by the financial aid deferment deadline, whichever comes first. Debts not paid will prohibit students from using University services such as registration, transcripts, etc.

Short term loans **are not available** until the financial aid distribution period. Students should come prepared to buy books and pay initial living expenses until financial aid disbursement.

Emergency Loans

Students who have a documented emergency situation, such as eviction or utility cut-off, may apply for an emergency loan at the Office of Financial Aid. Documentation and a picture ID are required to receive an emergency loan. Accounts in delinquent status are not eligible for an emergency loan. These loans must be paid by the due date, and University services will not be granted until paid in full. For emergency guidelines and requirements, contact the Office of Financial Aid.

Check Cancellation

Any Federal Direct Stafford Loan check available at financial aid distribution that is not disbursed by the check cancellation deadline will be returned to the lender for cancellation.

Loan Cancellation and Refusals

Students should notify the Office of Financial Aid to decline or refuse an awarded loan (Subsidized Stafford and Unsubsidized Stafford Loans, private loans, Graduate Plus and Parent Plus Loans) prior to it being disbursed to the student. Financial aid is processed at the end of the first week of each semester and it arrives thereafter. If the loan has already been disbursed and a student wishes to partially or fully refuse a loan, the student is required to notify the Office of Financial Aid and complete a cancellation form within fourteen days. The form can be completed at the Office of Financial Aid and repayment can be made to Florida State University by FSUCard, cash, cashier's check, or money order, or the original check can be brought to the Office of Student Business Services, *A1500 University Center.*

Loan Exit Interviews

Federal and University regulations require that all recipients of federal loans participate in an exit interview counseling session upon graduation, withdrawal from the University, or dropping below six semester hours. Counseling sessions can be completed online at *https://studentaid.gov/h/manage-loans*. For more information, contact the Office of Financial Aid at *ofacs@fsu.edu* or *(850) 644-0539*.

Additional Sources of Financial Support

Scholarship opportunities can be found on the FSU Scholarship Foundation, FS4U, at *https://fsu.academicworks.com/*.

It is the student's responsibility to report all additional sources of financial aid via "Outside Aid" located at *http://my.fsu.edu* within the Financial Aid student portal.

The Federal Work Study Program (FWSP)

The FWSP is a federally funded, need-based financial aid program, administered by the Office of Financial Aid. This program enables students to earn a portion of their financial aid offer. This program offers a positive alternative to loan indebtedness through meaningful part-time employment. Weekly work schedules are mutually determined by the student and the employing department to suit the student's class/exam schedule and the employer's needs. According to federal regulations, the work schedule cannot interfere with a student's class schedule.

Students may also utilize their Federal Work Study offers by participating in community service through the **Community Service Work Study Program (CSWSP)**. This program is designed to locate and develop off-campus community service jobs and offer referrals for eligible students. Students may assist with programs related to health care, childcare, literacy training, education (including tutoring), welfare, and social services. Some students may serve as mentors for educational and recreational activities or work as counselors in areas such as career counseling.

To determine eligibility for the FWSP and CSWSP, students must apply for financial aid at Florida State University by completing the *Free Application for Federal Student Aid (FAFSA)*, and by submitting all other required documentation.

Undergraduate Scholarships

Florida State University recognizes and rewards high academic achievement and awards scholarships on a competitive basis. All eligible students will automatically be considered at the time of their admission for these scholarships, which are administered by the Office of Admissions. Additional information can be found by visiting *https://admissions.fsu.edu/freshman/scholarships/*.

In addition, the individual departments described in the "Academic Departments and Programs" section of this *General Bulletin* list scholarships and assistantships available for students of specific majors. The University also has a Foundation Scholarship search site, FS4U, at *https://fsu.academicworks.com/*.

The Florida Department of Education, located in Tallahassee, FL, offers a number of programs for scholarships, grants, and loans to help defray a student's cost of education. These programs are available only to Florida residents. Contact the Florida Department of Education at *(888) 827-2004*; *http://www.fldoe.org/finance/financial-aid-scholarships*. Residents of other states should check with their state's Department of Education for additional aid that may be available to them.

Students receiving scholarship checks directly from a donor must bring them to the Office of Student Business Services for processing at *A1500 University Center*.

UNDERGRADUATE UNIVERSITY HONORS OFFICE AND HONOR SOCIETIES

Florida State University has a long history of providing recognition and support for outstanding students, beginning with a directive from a faculty committee in 1932. The program's purpose, as described in a report to the President and the Faculty Senate, was "to provide enlarged opportunities for… students; to give them a challenge and an incentive; to develop initiative, resourcefulness and self-reliance; to present knowledge in terms of fields, not courses." (*Report on Honors Work, FSU Archives, 12/21/32*)

Over the years, the scope and focus of honors work at Florida State University has evolved to address the changing needs of those students who choose to participate in the University Honors Program.

University Honors Office

Director: Dr. Annette Schwabe; **Associate Director:** Jeffrey Badger; **Assistant Directors**: Ashley Archer Doehling, Dr. Michael Franklin, Katie Mikusak; **Honors Faculty**: Dr. Azat Gundogan, Dr. Ross Moret, Dr. Christina Owens, Dr. Arianne Quinn

The University Honors Office supports the University's long tradition of academic excellence by offering two programs, the University Honors Program and the Honors in the Major Program, which highlight and support the institution's strengths in teaching, research, and community service. Please visit *http://honors.fsu.edu* for more information.

University Honors Program

The University Honors Program is designed for students who are entering full-time college studies for the first time. The program is intended to help the University's most talented students develop into excellent scholars, leaders in their communities, and innovators in their professions. To do this, the program encourages students to take advantage of the special opportunities available at Florida State University due to its status as a major research university and its role in the community. Students who pursue honors credit through courses and honors-level project work that focuses on research, creative activity, or community service may earn the Honors Medallion. A student receives the medallion when she or he accumulates eighteen semester hours in honors courses and approved honors project activities (some non-credit activities may be substituted with the approval of the Director of the University Honors Office) or by completing an Honors Thesis for Honors in the Major. The medallion may be worn during the University's commencement exercises. In addition, this achievement is noted on the student's transcript.

Students in the University Honors Program have the option of earning honors credits through several different types of courses described below.

Honors E-Series courses engage students in broad, critical, and creative thinking about contemporary problems and the enduring issues of human existence. Since faculty members develop these courses from their own specific research interests, and because each course is temporary, the offerings vary from semester to semester. Honors E-Series courses are limited to nineteen students per section, and also include substantive work in college-level writing. These E-Series courses fall into one of the six core liberal-studies disciplinary areas and/or Scholarship in Practice as part of the thirty-six Liberal Studies credit hours. Some also fulfill "x" or "y" Diversity requirements or the Oral Communication Competency requirement. **Note:** All honors students are required to complete one honors E-Series course.

Honors sections of regular courses are generally limited to twenty-five Honors students each. Honors-only sections are indicated by *HONORS Course Name* or *HON Course Name*. Honors courses tend to move at a faster pace than the corresponding regular course. Because they are smaller, they also allow for more in-depth examination of material and provide students with more opportunities to interact with fellow classmates and with their instructors. Honors sections of regular courses can be used to meet liberal studies requirements. They may also meet the liberal studies "x" and "y" requirements, depending on the topic.

Honors-Augmented Courses. When regular honors sections of courses cannot be made available, faculty in a department may agree to offer honors-augmented courses. These are non-honors courses open to all students in which the instructor engages honors students in special projects, which allows students to receive honors credit in the larger non-honors course. Honors-augmented courses are arranged in advance by the University Honors Office and placed on the course schedule. They are indicated by *Course Name—Hon* or *Course Name—Honors*

Individual Honors-Augmented Courses. The Individual Honors-Augmented Course Contract gives honors students additional opportunities to enrich course requirements in their majors and earn credit towards the Honors Medallion. Honors students may earn up to eight individual honors-augmented credit hours by taking 2000-4000 level non-honors courses in their major or minor by contracting with faculty to complete additional work in the courses. To earn individual honors-augmented credit, the honors student and faculty member must complete a contract within the first two weeks of the semester.

University Honors Colloquium. The University Honors Colloquium is a one-credit, pass/fail course required of all first year honors students. The goal of this course is to provide a common intellectual experience for new honors students while also introducing them to the research, creative, and service opportunities of a modern research university. Distinguished faculty from diverse disciplines give presentations on topics of broad interest, while directors of various campus programs provide information on how to enrich the student experience beyond the classroom.

Graduate Classes. Honors students may elect to take graduate classes for up to six credit hours, which can count toward the Honors Medallion. Graduate courses that are basic competency/review classes (e.g. a language-reading course) are excluded. The course must be taken for a grade; P/F and S/U courses will not count.

Honors DIS. Honors students may earn credit hours by registering to work with individual faculty. The Honors DIS is intended to be a project that meets the following five standards:

- The work must demonstrate intellectual initiative;
- The work must demonstrate engagement with the scholarship in the subject of the DIS, whether the work of the DIS is research or creative activity;
- The DIS must be graded (A-F);
- The DIS must be directed by a permanent member of the teaching faculty;
- The DIS must involve at least thirty hours of work for each credit hour awarded.

Earning the Honors Medallion. There are two ways of earning an Honors Medallion: *Honors Finisher* and *Honors in the Major*. These distinctions are noted on the student's transcript. During the semester that the student graduates, he/she is given an Honors Medallion at a special ceremony. The medallion may be worn during commencement exercises.

Honors Finisher. To become an *Honors Finisher*, students must earn eighteen honors points, which are usually honors credits earned through coursework. These eighteen honors points must include a minimum of seven semester hours of honors coursework (honors sections of regular courses, honors E-Series, the honors colloquium, honors-augmented courses). The remainder of the eighteen honors points can be earned through any combination of further honors coursework including honors Directed Individual Study (DIS), graduate courses, Individual Honors-Augmented courses, and Honors in the Major work (also known as honors thesis). Students who finish the Honors program have the phrase "*Completed Requirements of Liberal Studies Honors Program*" noted on their transcripts.

Students may earn up to a ***maximum of five*** honor points toward the Honors Medallion by the achievements listed below. The amount of points for each achievement is indicated.

Three of the eighteen honors points for the Honors Medallion may be earned by:

- Completing a Garnet and Gold Scholar Society program that includes Research as one of its components
- Completing a Certificate Program or Specialized Study Program with Honors.

One honors point toward the Honors Medallion may be earned by the following (an achievement may be duplicated for additional points).

- Thirty hours of service as noted on a student's ServScript;
- Serving as a FIG (**F**reshman **I**nterest **G**roup) leader;
- Serving as a UROP (**U**ndergraduate **R**esearch **Op**portunity) leader;
- Completion of the UROP program; and
- A conference presentation.

To count towards the Honors Medallion requirements, an honors course must be completed with a grade of "C–**"** or better. Honors-augmented courses will be counted towards the medallion if a grade of "B–" or better is earned and the honors-augmented project is completed satisfactorily. Students using honors thesis hours towards the medallion must earn a "B–" or better.

Honors in the Major: An Honors Medallion is also awarded to students who finish the Honors in the Major program by completing six or more credits hours of honors thesis work and successfully defending their thesis. A student who finishes eighteen credit hours of honors coursework that includes completion of the Honors in the Major (nine to twelve hours coursework plus six to nine hours of thesis) is given special recognition at the awards ceremony and has both distinctions described here noted on their transcripts.

Admission Requirements

Admission by Application. All high school students accepted into Florida State University as freshmen are welcome to apply to the University Honors Program. Applicants will be evaluated based on a holistic approach including, but not limited to: ACT/SAT scores, high school GPA, strength of curriculum, number of courses at the honors level or higher, honors and awards, extracurricular achievements, and unique individual talents When available, the application portfolio requirements are posted at *https://honors.fsu.edu/university-honors/admission-fsu-honors-program*.

Conditions of Admission. Acceptance into the Honors Program is subject to receipt of student's written response to the Honors invitation by the stated deadlines, successful senior year performance, and high school graduation.

Lateral Admission. Any incoming freshman student who was not admitted to the Honors Program through the standard admission process or by submitting an application portfolio has the opportunity to apply for lateral admission. When available, the lateral admission application is posted at *https://honors.fsu.edu/university-honors/admission-fsu-honors-program*. College freshmen may apply for lateral admission during their first Fall semester at Florida State University. Students offered lateral admissions to the University Honors Program join the program the Spring semester *following their first Fall semester*. Students will be evaluated on the basis of their FSU cumulative and term GPAs, college coursework, and expressed interest in the Honors Program as reflected in the application. Typically, students offered lateral admission enroll in at least twelve graded credit hours and earn at least a 3.8 FSU GPA during their first Fall term.

Note: Decisions about lateral admission are made after Fall term grades are posted. Students offered lateral admission to the University Honors Program are required to attend an Orientation prior to the start of the Spring semester. Students who are admitted laterally are held to the same program requirements as students admitted by standard admission.

Retention

To remain in the University Honors Program, students must enroll in and pass the University Honors Colloquium during their first year in the University Honors Program. Incoming freshman and laterally admitted freshman are required to take HUM 2944 section 01 or section 02. In addition, to remain in the program students must maintain at least a 3.2 FSU cumulative GPA and must complete seven hours of Honors credits by the end of the Spring semester of their sophomore year. Students must complete twenty service hours in the first two years, as noted on the student's ServScript.

Honors Housing

The Honors Residence Complex provides an excellent environment for honors students to socialize and study together. Since many students share the same courses, both planned and spontaneous study sessions are common. Honors Freshman tend to live in Landis Hall or a Living-Learning Community.

Students wishing to live in Landis Hall must submit a separate housing application listing Landis as their first hall preference. Please refer to the "Housing" chapter of this *General Bulletin* for additional information concerning Landis Hall.

Acceptance into the University Honors Program does not guarantee University housing in Landis Hall, or elsewhere. Students who intend to live on campus are strongly encouraged to submit an application to University Housing as soon as possible after their admission to the University.

Honors in the Major

Many colleges and departments of Florida State University participate in the Honors in the Major Program, which is intended to encourage talented juniors and seniors to undertake significant independent and original scholarship as part of the undergraduate experience in a framework similar to that of a thesis-based master's degree program. While many students conduct traditional research, the Honors in the Major program also supports the creative endeavors of those students in majors such as Creative Writing, Dance, Film, Music, Studio Art, and Theatre.

Students who successfully complete the requirements of the program, including completion and defense of an honors thesis or creative project, become eligible to graduate "with honors," which is noted on the transcript. Honors thesis work is carried out by the student over a period of two or three semesters in collaboration with a thesis director and two or three other faculty members who serve on the student's honors thesis supervisory committee. For more information, visit *https://honors.fsu.edu/honors-major*.

Eligibility

Students must contact the University Honors Office in the semester before they intend to register for thesis hours in order to submit a formal application to the program. The application must show that the student has the required grades and credits, a proposed thesis topic, sufficient time prior to graduation to complete the project, a thesis director, and the approval of the chair or director of the academic department or program in which the student is majoring. Detailed information on procedures for initiating and completing the Honors in the Major Program can be found at the program Web site, *https://honors.fsu.edu/honors-major*.

The University Honors Office requires that prospective students have at least sixty semester hours and at least a 3.2 cumulative FSU GPA. Transfer students must have a 3.2 overall FSU GPA, including all transfer work, and a 3.2 GPA on at least twelve FSU semester hours. Students should note that they may choose not to count credits that are five or more years old, as long as the most recent sixty semester hours average a 3.2 GPA. Departments retain the right to set their own specific eligibility criteria which may include, but are not limited to, cumulative and/or major course GPA higher than 3.2 and prerequisite or corequisite courses or seminars. Please contact the department's undergraduate faculty liaison for specific information.

Thesis Director and Supervisory Committee

Each student in the program works with a thesis supervisory committee comprised of a thesis director and two or three other members, one of whom must have a home academic department different from that of the thesis director. The members of the committee are selected by the student. Most often, the thesis director and members of the supervisory committee are tenured or tenure-track faculty members. However, Specialized Faculty and other permanent instructional and research staff are eligible to serve as a member of an HITM thesis so long as they have a terminal degree in the field of study (the Ph.D. for most academic programs) or have graduate faculty status; they may serve as co-director with one other committee member who is either in a tenured or tenure-earning position or who has graduate faculty status. A scholar who is not an employee of Florida State University may serve as a member of the supervisory committee if they are classified as a "visiting scholar" or have a courtesy faculty appointment at FSU and are approved by the Director of the University Honors Program. A supervisory committee consisting entirely of tenure or tenure-track faculty members does not require approval by the Honors Director. Academic departments and programs may elect to have more specific criteria for the thesis director and supervisory committee.

The duties of the thesis director include:

- Directing the student's research, study, and writing
- Helping the student structure the basic conception of the thesis project
- Helping the student clarify the objectives of the thesis project
- Working with the student to discover an appropriate research or creative strategy for achieving these objectives
- Monitoring the progress of the student
- Providing specific guidance to the student regarding formal deadline
- Scheduling the defense
- Signing the forms required by the University Office
- Serving as instructor of record for the Honors in the Major course credit

The duties of the other members of the supervisory committee include:

- Providing additional viewpoints on all phases of the thesis project – conception, creation, and completion
- Contributing input on the project itself and the evaluation of the project
- Participating in the thesis defense

Completion of the Honors Thesis

Typically, each student in the program works on the thesis project for two or three semesters. A prospectus is due to the University Honors Office during the first semester of research. This brief paper states the nature of the honors thesis, its scope, and its methodology. The prospectus must be approved by all members of the supervisory committee. Further details and specific forms regarding the prospectus are available from the Honors in the Major organization site through *http://my.fsu.edu*.

During each of these semesters, the student must enroll in one to three semester hours of thesis credit using the appropriate course number provided by the student's major department. Students must earn a total of six to nine honors thesis credits and must receive at least a "B–" in each of these courses. A student who does not have six credit hours of work graded "B–" or better will not be eligible for program completion and graduation with Honors. Students must also maintain at least a 3.2 cumulative FSU GPA until graduation. Several departments have additional requirements; students should contact the undergraduate faculty advisor in their major department in which the thesis work will be based for further information.

The student orally defends the completed honors thesis in a meeting with the supervisory committee. Following a successful defense, the student must submit the required defense forms and one electronic copy of the completed thesis to the University Honors Office no later than the official last day of classes in the defense semester. Further details and specific deadlines are available from the administrative coordinator of the Honors in the Major program or at the Honors in the Major organization site through *http://my.fsu.edu*.

University-Recognized Honor Societies

Through the University Honors Program, Honors in the Major Program, and honor societies, the University encourages excellence in all of its students. Florida State University is the home of the first Phi Beta Kappa chapter in the state of Florida. On Honors Night, a ceremony that was first held on May 4, 1936, the University salutes students who have received institution-wide recognition for academic achievement.

Honors societies that are formally recognized by Florida State University have met the standards as set by the Undergraduate Policy Committee. Some organizations are University-wide and some are specific to individual disciplines. These societies recognize students who have excelled academically and, in some cases, provide opportunities for service to Florida State University and the community.

Standards for the Recognition of University-wide Honor Societies

General Standards for Recognition

I. A society may be recognized as a Scholastic Honor Society or as a Leadership/Scholastic Honor Society.
II. The society must be approved for recognition by a body to be appointed by the University President or his/her designee.
III. The society must demonstrate membership participation in governance and control at both the national (if a national organization) and chapter levels.
IV. Full financial disclosure is required at both the national (if applicable) and chapter levels.
V. Only the institutional chapter may extend invitations to individuals for membership.
VI. To be considered University-wide, a society must receive into membership persons from a broad range of academic disciplines.

Standards for Membership Eligibility

I. Membership shall be conferred on the basis of character and specified scholastic, leadership, and service eligibility.
II. Eligibility criteria here specified are minimum ones; societies may have higher standards.

Scholastic Honor Societies

Eligibility is primarily based upon scholarship.

I. Upper-division/Graduate Societies
   A. Must be in the top twenty percent of their class scholastically;
   B. Undergraduates must have earned at least sixty semester hours, with at least twenty-four graded semester hours at this institution; and
   C. Graduate and professional students must have earned at least twenty-four graded semester hours at this institution.
II. Lower-division Societies
   A. Must be in the top twenty percent of their class scholastically;
   B. Must have earned at least twelve graded semester hours at this institution.

Leadership/Scholastic Honor Societies

Eligibility is based upon scholarship, leadership, and service to campus and the community. There is no distinction made by class.

I. Minimum overall 3.0 GPA, with at least twelve graded semester hours at this institution; and,
II. Leadership and service to be determined by the society.

University-wide honor societies officially recognized by Florida State University are listed below and can also be found at the Honors program Web site. The discipline-specific societies listed next are under the jurisdiction of the appropriate college or department. For complete details of activities and membership requirements, contact the individual organizations.

Scholastic Societies

Phi Beta Kappa is a scholastic honor society for those studying the liberal arts and sciences. The society was formed in 1776 and is the oldest student honorary society in the U.S. The Florida State University chapter, chartered in 1934 and established in 1935, was the first in Florida. The FSU chapter became an RSO in 2008 and became a partner organization of FSU's Center for Leadership and Social Change in 2012. The chapter's activities include recognition of outstanding juniors and graduating seniors and sponsorship of visiting speakers of University-wide interest. In the Fall and Spring, the chapter gives the Marion Jewell Hay Award to the top graduating student member, and student members are also eligible to apply for funding for travel to an academic conference. In the Spring, student officers honor an FSU faculty member with the Phi Beta Kappa Excellence in Teaching Award. New members are automatically invited each Fall, Spring, and Summer based on major, grades (minimum 3.9 GPA for juniors and 3.65 GPA for seniors), language study, and other criteria. For information, please visit *http://pbk.fsu.edu/*, or contact Dr. Annelise Leysieffer, *(850) 893-1282*, *aleysieffer@gmail.com*.

Phi Kappa Phi recognizes academic excellence among undergraduates, graduate students, and faculty in all disciplines. The society was founded in 1897; the University chapter was chartered in 1925. The chapter recognizes outstanding student scholars and artists and recommends them for national awards. New members are automatically invited each Spring. Second-term juniors must rank in the upper seven and one-half percent of their respective colleges. Seniors must be in the upper ten percent of their respective colleges. Graduate and professional students must rank in the upper ten percent of their respective college. All students must have at least twenty-four graded semester hours at Florida State University. For information, call *(850) 645-9793* or e-mail *mmelton@fsu.edu*.

Founded in 1977, **Golden Key International Honour Society** honors undergraduate and graduate academic achievements. The Florida State University chapter was chartered in 1984. The University chapter presents a yearly Outstanding Scholar Award and regularly sponsors projects in local schools and within the community. The chapter has been named Florida State University Campus Organization of the Year and has been recognized for excellence by the national organization. Every Fall, the chapter automatically invites those students with at least thirty semester hours and in the top fifteen percent of the sophomore, junior, senior, or graduate class. For information, e-mail *rbukanc@fsu.edu*.

Phi Eta Sigma is the oldest and largest national honor society that encourages and rewards academic excellence among first year university students. Every Spring full-time FSU undergraduates who earned a cumulative grade point average of at least 3.5 during their first year in college are offered membership-for-life in Phi Eta Sigma. Locally, members are invited to participate in a variety of academically-based service activities such as peer advising; volunteering at major university events; and managing the chapter as a member of the Leadership Council. Selected Leadership Council participants represent Florida State at Phi Eta Sigma's biennial national convention. These exceptional opportunities make Florida State members highly competitive when applying for Phi Eta Sigma national scholarships as demonstrated by the approximately $200,000 in awards won by FSU members in the past decade. The chapter's commitment to each member's academic success is further demonstrated with our "Endowed Award to Support Undergraduate Research" that annually distributes $1,000 awards to two members. For information, e-mail *PhiEtaSigma@fsu.edu* or *cboyd@fsu.edu*.

The **National Society of Collegiate Scholars** is an honors organization that recognizes outstanding academic achievement among first and second year college students and encourages members to develop leadership skills through community service. The society was founded in 1994 at The George Washington University, and the Florida State University chapter was formed in 1995. The society offers scholarships, awards, service opportunities, and leadership programs. Every Fall the chapter invites to membership those students who rank in the 20th percentile with a minimum GPA of 3.4. For information call *(850) 644-0443* or e-mail *vmartinez@fsu.edu*.

Leadership/Scholastic Societies

The **W.E.B. DuBois Honor Society**, established in 1991, is named for the black scholar, editor, and author of *The Souls of Black Folk*, who set high standards for educating African-Americans in the late nineteenth and twentieth centuries. The purpose of the W.E.B. DuBois Honor Society is to honor the

memory of the outstanding educator, Dr. W.E.B. DuBois, by promoting the pursuit of academic excellence in all fields of higher education, engaging the community of scholars in service to others, and recognizing the outstanding achievements of the society's members. The DuBois Society supports, guides, and encourages member involvement in other leadership and honorary organizations at Florida State University. Membership is open to all full-time undergraduate students of sound character who have achieved a 3.3 cumulative GPA at Florida State University, are in the top twenty percent of his/her class, and have earned at least thirty semester hours at this University. Letters of invitation will be sent to eligible students at least once each academic year. Transfer students and seniors will be considered for membership on an individual basis. For more information, contact the Undergraduate Studies Dean's Office, *(850) 644-2740*, or the Center for Academic Retention and Enhancement, *(850) 644-9699*.

Omicron Delta Kappa is the national leadership honor society for faculty and students. The society was founded in 1914 and came to Florida State University in 1950. The society recognizes achievement in scholarship; athletics; social, service, and religious activities; campus government; journalism, speech, and mass media; and creative and performing arts. Annual activities include the homecoming breakfast honoring outstanding Florida State University Grads Made Good, the faculty-staff Spring mixer, and the 7:50 a.m. Breakfast Club, where faculty, staff and alumni meet with current ODK students to discuss campus issues. The Florida State University circle has been named "Circle of Distinction." Applications are sought twice a year, and members are chosen on the basis of scholarship (upper third [thirty-three percent] of junior, senior, or graduate class), leadership, and service. For information, visit *http://sga.fsu.edu*, call *(850) 644-3342*, or e-mail *osteen@fsu.edu*.

Mortar Board is a national honor society that recognizes students for distinguished achievement in scholarship, leadership, and service. In 1931, the Torchbearer chapter of Mortar Board was established on the campus of FSCW, the forerunner of Florida State University. Nationally, Mortar Board was founded in 1918 and is among the most prestigious honor societies in the United States, with chapters at 205 colleges and universities in forty-six states. Each year Mortar Board sponsors and participates in events to provide service, advance the spirit of scholarship, and facilitate cooperation among honor societies. Every Fall, students with a minimum of sixty hours (twenty-four of which must be earned at FSU) and an FSU GPA of 3.25 or in the top twenty-fifth percentile of their class (whichever is higher) in their respective colleges are invited to apply for membership. Mortar Board members are not only recognized as the top scholars and leaders on campus but are presented with the unique opportunity to join a diverse group of students from vastly different disciplines and interests. Nationally, Mortar Board provides career networking, fellowships, and awards. For information call *(850) 644-7141* or e-mail *kcloud@fsu.edu*.

Garnet Key Honor Society of the Panama City campus, founded in 1986, recognizes students primarily for service and scholarship, but also for spirit and leadership. Activities are generally service projects and functions for the Panama City campus. Applicants must have completed fifteen semester hours at that campus with a GPA of 3.5 or higher. For information, e-mail *crios@pc.fsu.edu*.

The **Oscar Arias Sanchez Hispanic Honor Society (OASHHS)** was formed in the Fall term of 1992 to recognize academic excellence among students of Hispanic heritage and those interested in Hispanic/Latino culture. The OASHHS is a multicultural, scholastic/leadership society that promotes participation in and collaboration with other campus organizations, honors societies, and service organizations that serve the Tallahassee community. Membership into the OASHHS shall be granted to those sophomores, juniors, seniors, and transfer students who have attained a 3.3 GPA or above and who have fulfilled the event requirements for two consecutive semesters. Letters of invitation will be sent out to eligible students during the Fall semester of each academic year. To become a member of this organization, contact Undergraduate Studies Dean's Office, *(850) 644-2740*, or The Center for Retention and Enhancement, *(850) 644-9699*.

Garnet and Gold Key, founded in 1924, is the oldest leadership honorary society on the FSU campus. The society was formed to recognize the spirit of service, leadership, and loyalty. The society's annual activities now include Torch Night, which recognizes the top one hundred incoming freshmen and the conferral of The Ross Oglesby Award, given to one outstanding faculty or staff member who has dedicated ten years of service to the University, its students, and various community service projects. Juniors and seniors are able to apply twice a year for membership. Membership is granted on the basis of outstanding academic achievement and a diversified leadership experience. For more information please visit *http://sga.fsu.edu/ggkey/* or e-mail *cfilar@admin.fsu.edu*.

Other Societies

Phi Theta Kappa is the international honor society of two-year colleges. Florida State University's alumni chapter offers former active members the opportunity to remain affiliated after they transfer. Phi Theta Kappa was founded in 1918; the University has had an alumni chapter since 1982. For more information, contact Dr. Lisa Liseno, *lliseno@fsu.edu*.

Discipline-Specific Academic Honor Societies

College of Arts and Sciences

The **Department of Biological Science** sponsors **Beta Beta Beta**, a national honorary and professional fraternity dedicated to improving the understanding and appreciation of biology students and extending boundaries of human knowledge through scientific research. Tri-Beta promotes undergraduate research in biology through publishing its undergraduate-only journal, *Bios*; holding meetings at which undergraduate research papers are presented in the style of graduate meetings; and awarding competitive research stipends to support undergraduate research and publication. New members (any major) are invited twice a year to join the Sigma Tau Chapter at FSU. To qualify, new members must have completed three courses in Biological Science and maintain a science GPA of 3.0. For additional information, visit *http://tri-beta.neuro.fsu.edu/*, or e-mail professor Debra Ann Fadool, *dfadool@bio.fsu.edu*, for access to announcements or Facebook.

The honors organization of the **Department of Classics** is **Eta Sigma Phi**, founded in 1924 to promote the study and appreciation of classical languages and literature. The University chapter, organized in 1926, is the oldest active chapter in the United States. The chapter arranges lectures, poetry readings, translation contests in Greek and Latin, and tours. New members are invited twice a year, based on a "B" or above average in Greek and Latin courses. For further information, contact *jhclark@fsu.edu* or visit *http://www.etasigmaphi.org*.

The **Department of Computer Science** sponsors a chapter of **Upsilon Pi Epsilon**, the honor society for the computing sciences. The society is student-run and works closely with the local student chapter of the Association for Computing Machinery (ACM). Both undergraduate computer science majors and graduate students in computer science are eligible for election to membership. For full details on the current UPE membership requirements, please visit *http://upe.acm.org/membership.html*. For comprehensive information about UPE, visit *http://upe.acm.org/* or contact Dr. D. Gaitros, *dgaitros@fsu.edu*.

The **Department of English** sponsors a chapter of the **Sigma Tau Delta** literary honor society. The society is open to majors and minors in English and Modern Languages and Linguistics who have completed sixty semester hours or more with GPAs of 3.0 and higher. The society is student-run, and activities change with student interests. Recent activities have included book sales, forums on applying to graduate and law schools, marathon readings of favorite texts, publication of a literary journal, and an annual poetry and fiction contest for Leon County middle schools. Interested students should submit an application and $40.00 fee to the Associate Chairperson for Undergraduate Studies in English.

The **Department of History** boasts the fourth chapter in the nation (founded in 1926) of **Phi Alpha Theta**, an honor and professional society dedicated to promoting the study of history. The chapter sponsors speakers, seminars, and publications. Students, who need not be history majors, may apply for membership twice a year. Undergraduates need twelve semester hours in history with a 3.2 GPA and a 3.0 overall GPA. Graduate students need twelve semester hours in history and a 3.5 overall GPA.

The honors society of the **Department of Mathematics** is **Pi Mu Epsilon**, founded nationally in 1914 and at Florida State University in 1956. Members are selected by invitation, based on national standards for mathematics credits and GPA, and overall GPA. Both undergraduate and graduate students are admitted. These exemplary students also participate in mathematics competitions and the department's three student organizations, the Florida State Mathematical Society, the Florida State Student Actuarial Society, and the student-led Graduate Student Seminar. For more information, e-mail *advisor@math.fsu.edu*.

Chi Epsilon Pi is the honor society for outstanding meteorology students in the **Department of Earth, Ocean, and Atmospheric Science**. The Florida State University chapter has existed since 1966. In order to be eligible for membership, graduate students must have at least nine semester hours of approved graduate level EOAS courses while in graduate status, a 3.5 or better GPA in all meteorology coursework, and overall GPA of 3.25 or greater. Undergraduate students are eligible upon completion of at least seventeen graded semester hours of meteorology coursework at the 2000 level or higher, and must have at least a 3.5 GPA in this meteorology coursework, a 3.25 or greater GPA overall

from the period starting with the first semester as a junior and ending with the last complete semester, and at least one year in the Meteorology program. Other criteria exist for non-degree students. Students are inducted each Spring.

The **Department of Modern Languages and Linguistics** has five honor societies, each with a different language of focus:

French. Pi Delta Phi has long been established at Florida State University and inducts major and minor students on the undergraduate and graduate levels. Prospective undergraduate members must have a 3.0 GPA overall and in French classes, with at least one French class on the 3000-level and sophomore standing. Undergraduate students do not need to be French or French Studies majors or minors to be nominated for regular membership. Graduate students must have a 3.0 GPA in French as well as an overall GPA of 3.0, and must have completed one semester of graduate work in French. For more information, contact Dr. V. Osborn, *(850) 644-8601*, *vosborn@fsu.edu*.

German. Delta Phi Alpha is the national honor society for students of German. The chapter at Florida State University, organized in 1979, is Iota Eta. Minimum requirements include a 3.5 GPA in German and a 3.0 overall GPA, and at least three German courses above the language requirement; students may be enrolled in the third course at the time of application. One of the 3000-level courses may have the prefix GET (film or literature). Students wishing to be considered for membership should contact Dr. Christian Weber, *(850) 645-7842*, or *cweber@fsu.edu*.

Italian. The Italian Honor Society, **Gamma Kappa Alpha** is a nationally recognized honor society organized in 1983. The Florida State University chapter followed in 1984. Prerequisites: you must be at least a junior or have a BA with a minor or a major in Italian. You need a 3.5 GPA in Italian and a cumulative GPA of 3.0. GKA organizes Italian review sessions, fundraisers, community outreach, parties and day trips. There is a $30 membership fee. Induction into the society takes place in the Spring. For more information, contact Dr. Irene Zanini-Cordi at *izaninicordi@fsu.edu*.

Slavic (including **Russian**)**. Dobro Slovo** was founded in 1926; the University has had a chapter since 1972. Each Spring, students apply, or are invited, based on two years of study of Slavic languages and related subjects with a 3.25 GPA and an overall GPA of 3.0. For more information, contact Dr. L. Wakamiya, *(850) 644-8391* or *lwakamiya@fsu.edu*.

Spanish. Sigma Delta Pi is the honor society for students in Spanish and has had a chapter at the University since 1935. Sigma Delta Pi offers students competitive opportunities to study abroad. Undergraduates must have a 3.2 GPA in Spanish. Applicants must complete nine hours of Spanish at or above the 3000-level; at least one course must be in Spanish literature or culture/civilization. Graduate students are also eligible after completion of two graduate courses in Spanish with a GPA of 3.0 or above. New members may apply annually. For more information, contact Dr. A Brandl, *(850) 644-2343*.

Sigma Pi Sigma is the national honor society for majors in the **Department of Physics**. The organization was founded in 1921 and the University Chapter was organized in 1954. New members are inducted once a year, chosen from among majors in the Department of Physics. To qualify, juniors must have completed a minimum of seven graded PHY, PHZ, and AST courses with a GPA of at least 3.5 in those courses. Qualifying seniors will have completed a minimum of twelve graded PHY, PHZ and AST courses with a minimum GPA of 3.25 in those courses.

The **Department of Psychology** fosters a chapter of **Psi Chi**, a national honor society founded in 1929. The University chapter, in existence since 1959, concentrates on three goals: a) providing high-impact service opportunities for members that allow them to gain career-relevant experience while serving the community; b) connecting members to the professional knowledge and advice of Psychology faculty, graduate students, alumni and other members; and c) providing opportunities for the campus community to be exposed to the knowledge of our science. Students may apply for membership twice a year. Psychology majors or minors must have completed twelve semester hours of psychology with a minimum 3.2 overall GPA and a 3.2 psychology GPA. For information, visit *http://fsupsichi.weebly.com* or contact *psichi@psy.fsu.edu* or faculty advisor Adam Johnson at *ajohnson@psy.fsu.edu*.

College of Business

Beta Gamma Sigma was founded in 1913 and established at the University in 1962. Both undergraduate and graduate business students are eligible for election. New members are automatically invited in the Fall and Spring semesters; a 3.8 overall GPA is required. For more information, contact *aovenproctor@business.fsu.edu*.

Beta Alpha Psi is the national scholastic and professional organization of the **Department of Accounting**. Established in 1962, the University chapter recognizes outstanding academic achievement in accounting and business, promotes the study of accounting and business, provides opportunities for interaction among members and practicing business professionals, invites speakers from the profession, and undertakes campus and community service activities. Prospective undergraduate and graduate accounting, finance, and management information systems majors who intend to major in the aforementioned areas and have met grade point requirements in their majors and overall may apply for membership. New members are initiated in the Fall and Spring semesters. For more information, contact the chair of the Department of Accounting, *fheflin@fsu.edu*.

Majors in the **Dedman School of Hospitality** are eligible for **Eta Sigma Delta**, the international hospitality honor society. The society was founded in 1978 and came to the University in 1981. The local chapter emphasizes career preparation activities. Students who are hospitality majors in the junior year with a 3.0 overall GPA are invited to apply at the beginning of each semester. For more information, contact the Director of the Dedman School of Hospitality, *johlin@business.fsu.edu*.

A chapter of **Sigma Iota Epsilon**, a management fraternity, has been sponsored by the **Department of Management** since 1969. Both undergraduate and graduate students are eligible for membership and both must have a 3.2 GPA, among other requirements. For more information, contact the chair of the Department of Management.

College of Communication and Information

Lambda Pi Eta, a national communication honor society, had its charter year at the college in 1989. The purposes of the society are: (1) to foster and reward outstanding scholastic achievement in communication; (2) to stimulate interest in the field of communication through community outreach and service; (3) to promote and encourage professional development among communication majors; (4) to provide an opportunity to discuss and exchange ideas in the discipline of communication; (5) to establish and maintain closer relationships and mutual understanding between communication faculty and students; and (6) to explore options for graduate education in communication. The criteria for being a member require a student to be a communication, communication science and disorders, or information technology major; to have completed at least fifteen semester hours in a communication or information technology major and sixty hours overall; and have a minimum of a 3.5 GPA overall and in the major, with no grades below "C–", no more than one incomplete (I) on a maximum of six semester hours, and no unsatisfactory grades (U). New members are invited at the beginning of each Fall and Spring semester. For more information, contact Dr. Hall-Mills at *Shannon.Hall-Mills@fsu.edu*.

Beta Phi Mu, the Library and Information Studies International Honor Society, was founded in 1948 at the University of Illinois at Urbana-Champaign. In 1957, the Gamma Chapter of Beta Phi Mu was installed at Florida State University to recognize local scholars. Beta Phi Mu headquarters are currently housed in the School of Information, College of Communication and Information, on the Florida State University campus. Membership is by invitation and is offered to graduate students who have recently graduated from a program in Library and Information Studies. There is a minimum GPA requirement and students must be nominated by faculty; no more than twenty-five percent of a graduating class may be nominated. For more information, contact Dr. Gary Burnett, *gary.burnett@cci.fsu.edu*.

College of Criminology and Criminal Justice

Alpha Phi Sigma is a nationally recognized honor society for students in criminology and criminal justice. The society recognizes academic excellence by undergraduates and graduate students.

To become a member, students must have completed one-third of the total hours required for graduation at Florida State University. The student must be recommended by the local chapter advisor or a faculty member. Undergraduates must maintain a 3.2 overall GPA and a 3.2 GPA in their major courses. Students must also rank in the top thirty-five percent of their class and have completed a minimum of four courses within the criminology and criminal justice curriculum. The society is open to students with a declared criminology and criminal justice major or minor. For more information, contact *coakley@fsu.edu*.

College of Education

Kappa Delta Pi is an international honor society in education and has maintained a chapter at the University since 1925. Students are invited twice a year to apply. Prospective undergraduate members must have completed twelve semester hours of professional education courses and have a minimum 3.0 GPA. Prospective graduate members must have completed at least six credit hours of graduate coursework, have completed or are in the process of completing twelve semester hours of professional education courses, and have a minimum 3.25 GPA. For more information, contact Dr. A. F. Davis, *(850) 645-1739*, *afdavis@fsu.edu*.

Phi Delta Kappa has maintained a chapter at the University since 1953. The group frequently participates in national research projects in education.

Students are invited or may apply once a year. Members must have obtained a baccalaureate degree and be admitted to a graduate degree program or have five years successful professional experience.

College of Engineering

The **Civil Engineering Honor Society** is an organization dedicated to recognizing and promoting academic excellence within the civil engineering major. While in the process for recognition as a chapter of Chi Epsilon, the national civil engineering honor program, CEHS, provides service opportunities such as tutoring, event help at the College of Engineering, and social activities. CEHS also gives top civil engineering students an exclusive means to serve other students, the College of Engineering, and Tallahassee at large. Potential members are selected from the upper one-third of civil engineering juniors and seniors.

The **Tau Beta Pi** engineering honor society was founded in 1885 at Lehigh University and is the oldest engineering honor society in the United States. The society was founded "to mark in a fitting manner those who have conferred honor upon their alma mater by distinguished scholarship and exemplary character as undergraduates in the field of engineering." The society now exceeds two hundred and thirty active chapters across the country. The FAMU-FSU College of Engineering chapter of Tau Beta Pi, Florida Eta, was installed on February 29th, 1992. New members are selected based on scholarship (upper one-fifth of engineering seniors and upper one-eighth of engineering juniors), character, and integrity.

The **Pi Tau Sigma** international mechanical engineering honor society was founded in 1915 at the University of Illinois. The society recognizes students who show sound engineering ability, high scholarship (upper thirty-five percent of juniors and upper twenty-five percent of seniors), personality, and probable future success in the field of Mechanical Engineering. The FAMU-FSU College of Engineering chapter, Alpha Iota, was founded April 16th, 1994. The Alpha Iota chapter supports the Mechanical Engineering department through community outreach, undergraduate mentoring, tutoring, and social activities.

IEEE-HKN is the international honor society for electrical and computer engineering, which grew from the national honor society Eta Kappa Nu (HKN), that was founded at the University of Illinois. On April 9th, 2009, the Lambda Delta Chapter of Eta Kappa Nu was chartered at the FAMU-FSU College of Engineering. Student members are selected based on scholarship, character, and attitude. New members must be in the upper one-third of electrical and computer engineering seniors or upper one-fourth of electrical and computer engineering juniors.

Founded in 1949 and chartered at FSU in 1995, the **Alpha Pi Mu** industrial engineering honor society confers recognition upon students of industrial and manufacturing engineering who have shown exceptional academic interest and abilities in their field, encourages the advancement and quality of industrial and manufacturing engineering education, and unifies the student body of the Industrial and Manufacturing Engineering Department in presenting its needs and ideals to the faculty. Candidates are selected from outstanding members of junior, senior, and graduate classes in industrial engineering. New members must be in the upper one-third for the senior industrial engineering students or in the upper one-fifth of the junior industrial engineering students.

College of Human Sciences

Kappa Omicron Nu was established in 1990 with the consolidation of Kappa Omicron Phi and Omicron Nu. Omicron Nu was established at the University in 1922. The local chapter is Omicron Pi Chapter. Kappa Omicron Nu recognizes and encourages excellence in scholarship, research, and leadership. Undergraduates must have sixty semester hours (at least fifteen of which were completed at Florida State University in a major within the College of Human Sciences) with a minimum FSU GPA of 3.3. Graduate students must have at least twelve semester hours that were completed at Florida State University in a major within the College of Human Sciences with a minimum FSU GPA of 3.5. New members are initiated at least once a year.

The **Glenn Society** was established in 2004 and named in honor of Hortense Glenn, who served as Dean of the College of Human Sciences from 1958 to 1972. The purpose of this honor society is to recognize students who have exhibited outstanding leadership and service while maintaining a high level of academic achievement. Each year no more than one percent of the student body of the College of Human Sciences is selected for membership. Undergraduate students are required to have completed ninety or more semester hours (at least thirty hours at Florida State University and twenty since declaring a major in the College of Human Sciences), a minimum FSU GPA of 3.3 and evidence of leadership and service. Graduate students at the MS level must have completed at least two semesters of coursework as a major in the college and PhD students are required to have completed at least four semesters in the college. For graduate students, a minimum FSU GPA of 3.8 is required in addition to evidence of leadership and service. New members are inducted once per year, in the Spring semester.

Iota Tau Alpha is an honorary society in the **Department of Nutrition, Food and Exercise Sciences**. It was established in 2004 at Troy University, and the Alpha Chi chapter, now the largest in the nation, was organized at The Florida State University in 2009. The objective of the Society is to foster a high standard of ethics and professional practices and to create a spirit of loyalty and fellowship, specifically for those students in Athletic Training. To be considered for membership, undergraduate students must be in the major of Athletic Training, have completed at least one term of their second year of a four year curriculum, have completed at least three term courses in Athletic Training with an average grade of "B" or better, and be in good academic standing—with at least a 3.5 cumulative college GPA or in the top thirty-five percent of their class. The Alpha Chi chapter also uniquely requires that each initiated member participate in at least one research study conducted within the College of Human Sciences. Initiation is held at the beginning of each Spring semester, with 2010 marking the first initiated class at FSU.

College of Law

The **Order of the Coif** was founded in 1902 and came to the University in 1979. New members are invited once a year from the top ten percent of the graduating class.

College of Medicine

Alpha Epsilon Delta is the Pre-Health Professional honor society. This society welcomes members who are planning careers in medicine, podiatry, dentistry, veterinary medicine, optometry, pharmacy, or other medical fields. To become a national member, students must be in the second semester of their sophomore year and have an overall and a science GPA of 3.2. Freshmen and sophomores are encouraged to participate in activities of the society. The Florida-Beta chapter at Florida State University was founded in 1946 and is one of the oldest chapters in the Southeast. The society invites speakers who represent the health professions, plan trips to area professional schools, and participates in community service. For additional information, call *(850) 644-7678* or e-mail Rob Borger, *rob.borger@med.fsu.edu*.

College of Music

Pi Kappa Lambda is an honor society dedicated to fostering scholarly interest in the theoretical and historical aspects of music and to the pursuit of eminent achievement in performance, composition, music education, music therapy, and research. Pi Kappa Lambda was founded in 1918 and established the Phi Chapter at the University in 1943. New members are chosen once a year based on scholarly achievement and musicianship. Juniors must be in the top ten percent of the class; seniors, in the top twenty percent; graduate students must have an "A" in at least two-thirds of their courses.

College of Nursing

Sigma Theta Tau International, the scholastic honor society of nursing, was established in 1922. The University chapter, Beta Pi, was chartered in 1974. The society's vision is to create a global community of nurses who lead by using knowledge, scholarship, and service to improve the health of the world's people. Student candidates shall have demonstrated superior academic achievement, academic integrity and professional leadership potential. Undergraduate nursing students are eligible for consideration once they have completed one-half of the nursing program and must rank in the upper thirty-five percent of their class, with a minimum overall GPA of 3.0. Graduate students are eligible for consideration once they have completed one-fourth of the graduate nursing program, provided they have an overall GPA of 3.5 or better.

College of Social Sciences and Public Policy

Pi Gamma Mu is open to students in anthropology, Asian studies, criminology, economics, geography, history, international affairs, political science, psychology, public administration, Russian and East European studies, social science, social work, sociology, and urban and regional planning. The University chapter was founded in 1975. Students must have a minimum of twenty semester hours in the above subjects with at least a 3.0 GPA and no social science grade of "F", and (except for graduate students,) must be in the upper thirty-five percent of their classes. Prospective members are also expected to have extracurricular activities related to the social sciences. For more information, contact Dr. Crew, *211 Bellamy, (850) 644-4418*, or *rcrew@fsu.edu*.

Gamma Theta Upsilon is the honor society in the **Department of Geography**. The society was founded in 1931 and came to the University in the mid-1950s. The local chapter organizes lectures and field trips. Both undergraduate and

graduate students are eligible, and invitations go out twice a year. A student must have a 3.0 overall GPA, must have a "B" in geography in at least three courses, and must have completed at least three semesters of college coursework. For more information, contact Dr. V. Mesev, *vmesev@fsu.edu*, or *(850) 644-1706*.

The honor society of the **Department of Political Science** is **Pi Sigma Alpha**. The society was founded in 1920 and a chapter was established at the University in 1954. Undergraduate and graduate students may apply if they have at least twelve semester hours in political science (including public administration) with a 3.2 GPA and a 3.0 overall GPA.

Pi Alpha Alpha is the national honor society for the field of **Public Administration**. New members are invited semi-annually based on a 3.75 graduate GPA or better and a minimum of twenty-one completed semester hours, both in their degree program.

The honor society for the **Department of Sociology** is **Alpha Kappa Delta**. The aim of the University chapter, Alpha, is to stimulate scholarship and maintain a fellowship for students, both at the graduate and undergraduate levels. Requirements for undergraduates include the following: junior or senior classification, a minimum of twelve semester hours of sociology courses completed, a minimum overall GPA of 3.0, and a minimum 3.0 GPA in sociology courses. Graduate students must have completed at least one semester of graduate work with at least a 3.0 GPA. For more information, contact the Department of Sociology.

College of Social Work

The **College of Social Work** was the national founding chapter of **Phi Alpha** honor society. Phi Alpha fosters high standards of achievement for students and promotes humanitarian ideals through community service. Applications are taken twice a year. Undergraduates must have an overall GPA of 3.0, with a 3.25 GPA in at least nine semester hours of social work courses. Graduate students must have a 3.5 overall GPA with nine semester hours completed in social work.

The College of Social Work also sponsors the FSU chapter of **Sigma Phi Omega**, the national academic honor and professional society in gerontology. Sigma Phi Omega was established to recognize excellence of those who study gerontology and aging and the outstanding service of professionals who work with or on behalf of older persons. Membership is open to undergraduate and graduate students who are majoring or minoring in gerontology/aging studies and related fields and who are in at least their second term of enrollment. Undergraduates must have a grade point average of at least 3.3 on a 4.0 scale, and graduate students must have at least a 3.5 GPA to be eligible for membership. Faculty, alumni, professional, and honorary memberships are also available.

UNIVERSITY-WIDE STANDARDS FOR UNDERGRADUATE TEACHING ASSISTANTS AT FLORIDA STATE UNIVERSITY

These University-wide standards are for an undergraduate student assuming one of the various instructional roles. These expectations are the minimum criteria, and departments may adopt additional or more stringent standards. Programs that do not use undergraduate students in instructional roles would not be affected by this policy. The established standards apply to all undergraduate teaching assistants, whether paid or working in a credit-earning capacity, in course instruction or aid. Note: Students who function in these roles who are not hired or receiving credit will still be held to role requirements.

The companion policy, University-wide Standards for Graduate Teaching Assistants at Florida State University, details the policies that apply to the use of graduate students as teaching assistants.

General

Administrative responsibility for the teaching assignment rests within the department or program in which the student is employed as an undergraduate teaching assistant (UGTA). Each department is responsible for:

- providing orientation, supervision, and evaluation of its UGTAs.
- assigning a faculty member to work closely with the individual undergraduate student to supervise and assist them in carrying out teaching responsibilities.

There should be a departmental orientation for UGTAs prior to their beginning any teaching responsibilities. Departments must also ensure that all UGTAs receive their required training on sexual harassment, FERPA, the Academic Honor Policy, and how to identify and handle situations of potential conflicts of interest. Departments must have their trainings approved and cataloged with the Division of Undergraduate Studies before any student can be certified as an UGTA. Departments must follow the established university recruiting and hiring process and the training requirements, listed below, in order to utilize UGTAs.

It is strongly recommended that each program have a discipline-specific teaching manual for its UGTAs to supplement the University teaching manual, Instruction at FSU, which can be viewed online at *https://distance.fsu.edu/instructors/instruction-fsu-guide-teaching-learning-practices*.

Undergraduate Assistantship Job Code

To monitor compliance with University policies and the Fair Labor Standards Act (FLSA) requirements, it is imperative that the proper appointment classifications be used for UGTAs. It is the responsibility of individual departments that employ UGTAs to establish the appropriate job code according to role responsibility. The Office of Human Resources (HR) can provide guidance on each classification and is the office to contact if there are any questions. Students in all Undergraduate Teaching Assistant classifications must be regularly supervised and evaluated by their supervising faculty member. They must also be certified as completely trained before they begin their job duties. Certification will be based on completion of the appropriate training requirements. The university standards for hiring Undergraduate Teaching Assistants (UGTAs) are in the following job codes:

- Undergraduate Grading Assistant (A101)
- Undergraduate Tutorial Assistant (A002)
- Undergraduate Instructional/Lab Section Assistant (A003/A022)

Undergraduate Grading Assistants are degree seeking undergraduate students in the discipline or field in which they were hired to grade. Undergraduate students are restricted from grading other undergraduates' work on a subjective basis. They will assist instructors in grading based on completion or objective questions. They also help in administering exams and lab assignments. They will have direct contact with the faculty teaching the course. Undergraduate Grading Assistants are level one UGTAs. Job Code A101

Undergraduate Tutorial Assistants are degree seeking undergraduate students who have demonstrated subject matter expertise in the discipline or field in which they were hired to tutor. They will assist students in understanding and processing course materials and/or concepts. They will have direct contact with students and will do no grading. Undergraduate Tutorial Assistants are level two UGTAs. Job Code A002

Undergraduate Instructional/Lab Section Assistants are degree seeking undergraduate students trained in the discipline or field in which they were hired. They will lead recitation, discussion, or colloquium classes under the direct supervision of faculty/staff. Alternatively, they will lead lab classes, demonstrations, and/or experiments, under the direct supervision of faculty/staff. In order to hold this position, the student must have passed the course they will be instructing or leading and/or a training course to prepare them. Students must be listed and associated with the class and be assigned an instructor role. They will have direct contact with students and may grade assignments but will do no subjective grading. This role may include additional duties such as those described in aforementioned roles. Undergraduate Instructional/Lab Section Assistants are level three UGTAs. Job Code A003 or A022.

NOTE: A022 is an Exempt (from FLSA) job code whereas A003 is Non-Exempt. Non-exempt UGTAs are paid hourly wages and their time and leave must be tracked bi-weekly. Exempt UGTAs are paid a stipend for the semester and hours are auto generated in their timesheets. Appointing an UGTA as A022 (exempt job code) requires an OPS exempt request form and is subject to HR approval.

Learning Assistants (LAs) are undergraduates who have successfully completed a course and are subsequently selected by faculty to work with them in the classroom, helping current students engage with course material for better understanding. Through the guidance of weekly preparation sessions and a pedagogy course, LAs facilitate discussions among groups of students in a variety of classroom settings that encourage active engagement. Learning Assistants are level three UGTAs. Job Code A003 or A022

NOTE: A022 is an Exempt (from FLSA) job code whereas A003 is Non-Exempt. Non-exempt UGTAs are paid hourly wages and their time and leave must be tracked bi-weekly. Exempt UGTAs are paid a stipend for the semester and hours are auto generated in their timesheets. Appointing an UGTA as A022 (exempt job code) requires an OPS exempt request form and is subject to HR approval.

Minimum training Requirements for Different Levels of Instruction (provided face-to-face or online)

All UGTAs must receive training on:

- Discrimination/Sexual Misconduct/Retaliation Awareness and Prevention as included in in OPS New Employee Orientation (*https://hr.fsu.edu/?page=neonline/neonline_home*)
- The Academic Honor Policy (information available through the Office of the Vice President of Faculty Development and Advancement http://fda.fsu.edu/)
- The Federal Educational Rights and Privacy Act (FERPA) (information available through the Office of the University Registrar http://registrar.fsu.edu/)
- Department specific policies and procedures for the individual department in which they are working.

All level two and three UGTAs must complete:

- Peer Ambassadors, Advisors, Leaders, and Mentors Badge, covering a social media policy, code of conduct, or approved department equivalent.

All level three UGTAs must also receive:

- Approved training on how to facilitate the class they will be leading.

Training for each of these policies is available in online learning modules; please contact Undergraduate Studies for access to this content.

Departments that choose to employ international undergraduate students who are not native speakers of English as UGTAs must certify the student's ability to communicate in spoken English using either the SPEAK exam or the speaking portion of the IBTOEFL. A score of 50 or higher on the SPEAK test, or 26 or higher on the speaking portion of the IBTOEFL, certifies a student to teach at any level. A score of 45 on SPEAK, or 23 to 24 on the Speaking section of IBTOEFL, certifies a student to teach at level 1. The Center for Intensive English Studies (CIES) offers courses in Spoken English (EAP courses). CIES also administers and scores the SPEAK test. For more information, please see *http://www.cies.fsu.edu*. Departments must send documentation regarding those UGTAs it has certified in English competency to the Office of the Vice President for Faculty Development and Advancement.

UNDERGRADUATE HOUSING

Executive Director of University Housing: Shannon Staten, *109 Student Life Building*

Residence Halls

The **Office of University Housing** is responsible for all on-campus housing facilities and programs for residents. The office provides living accommodations for full-time, degree-seeking, fee-paying students. All assignments are made without regard to race, religion, sexual orientation or national origin. Some rooms and apartments are adapted for residents who have physical disabilities.

University facilities on the main campus include eighteen residence halls accommodating approximately 6,700 single undergraduates and graduate students in a variety of suite and apartment-style housing spaces. The chart below lists each residence hall and the special programs available in each residential area. All of the residence halls are co-ed.

For the security of the residents, entrances to residence halls are locked at all times. Residents must use their FSUCards to enter. Visitors must be escorted in the building at all times by a resident.

Each room is furnished with a bed for each resident, study desks, chairs, dresser space, a small refrigerator, cable, and Internet access for each resident. Residents must provide their own linens. Bicycle pads for parking are situated outside each hall, but residents must provide their own lock and chain.

Halls	Special Programs/Comments
Azalea	Suite Style
Broward	Suite Style
Bryan	Bryan Hall Learning Community- freshmen only; Suite Style
Cawthon	Women in Math, Science, and Engineering Program; Music Living-Learning Center; Suite Style
DeGraff	Suite Style
Deviney	Entrepreneur and Innovation Learning Community; Suite Style
Dorman	Global and Public Affairs Learning Community. Suite Style
Gilchrist	Suite Style
Jennie Murphree	Suite Style
Landis	Suite Style; Honors Community
Magnolia	Suite Style
McCollum	Apartment Style
Ragans	Apartment Style
Reynolds	Health Professions Learning Community; Suite Style
Rogers	Apartment Style
Salley	Suite Style
Traditions	Apartment Style
Wildwood	Social Justice Living-Learning Community; Nursing Living-Learning Community; Suite Style

Costs

Semester rate includes utilities, mail service, wired and wireless Internet, cable, and a refrigerator. Rental rates and payment due dates are provided on the University housing Web site at *http://housing.fsu.edu*.

Note: All housing rental fees are established by Florida State University and are subject to approval by the State Board of Education. University Housing is a self-supporting auxiliary, and rental rates must reflect operating costs.

Contracts

Upon notice of admission, students receive information about housing which includes information about how to submit a housing contract electronically. The contract is available at *http://housing.fsu.edu*.

As space is limited, interested students are urged to submit their contract and advance payment as quickly as possible. Assignments are made on a priority basis: 1) returning residents–based on the number of completed credit hours on file with the Office of the University Registrar, and 2) all new residents–based on the date the contract is submitted. No guarantee can be given that specific room or hall preferences can be met.

The **Housing Contract** for residence hall students is for the contract period for the semester(s) for which the student contracts. All students who submit the Housing Contract and enroll in the University are rent obligated for the period of the contract. Academic year contracts include both Fall and Spring semesters and are not eligible for cancellation except as stated in the contract terms and conditions.

Special Living Units

Although no student is required to reside in University housing facilities, entering freshmen are encouraged to do so to avail themselves of the opportunities provided by the University Housing staff. University Housing has developed a housing program that is committed to providing a comfortable environment that promotes and supports the educational mission of the University. Great effort is taken to provide students with a variety of alternatives and choices in residence hall living.

In addition to its variety of facilities, University Housing is committed to providing students with a wide range of activities and programs that are designed for their needs. Full-time student affairs professionals, graduate assistants, and student staff reside within the halls both to assist residents with academic and interpersonal problems and to organize social, recreational, and educational events. Residents are encouraged to be active in their communities through their hall governments.

Several special living units help to develop a sense of community among their residents. Here students join together to share personal and academic interests. Students admitted to the FSU Honors Program receive priority for assignment to Landis Hall, where staff and residents share a commitment to the honors program. Eight living-learning communities (LLCs) are housed in residence halls across campus. These LLCs are designed to help students succeed during the critical first year of college.

For additional information about special programs, please visit the University Housing Web site at *http://housing.fsu.edu*.

Other Options

Students who are unable or choose not to live in University housing have several housing options. A considerable number of apartments and homes located near campus are available for rent. Greek organization houses accommodate some of their members.

The **Southern Scholarship Foundation** provides free rent housing in a cooperative living environment for a limited number of students who have excellent academic records and financial need. The eligibility requirements are a GPA of 3.0 or higher and a FAFSA EFC of 7500 or lower. Students share all household duties and each foundation house is supervised by a House Manager upper-level student who resides with the students. Online applications are due on November 1st for Spring applicants and on April 1st for Fall applicants. The application is available on the SSF Web site. *Southern Scholarship Foundation, 322 Stadium Drive, Tallahassee, FL 32304*; *(850) 222-3833*; *http://www.southernscholarship.org*.

The **Off-Campus Housing Office**, a Student Government funded agency, serves as an information center, assisting students who seek off-campus housing. The office maintains a list of area houses, apartments, private residence halls, scholarship houses, and mobile homes. The information available includes rental cost, deposit, distance from campus, lease terms, and amenities.

COLLEGE OF APPLIED STUDIES
UNDERGRADUATE

Dean: Randall Hanna; **Associate Deans:** Amy Polick, Irvin Clark

Established in 2010, the College of Applied Studies is one of the newest colleges at the University. The administrative offices of the College of Applied Studies are located on the Panama City campus, which is about one hundred miles southwest of Tallahassee, on beautiful North Bay.

General Information

All students must meet the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. In order to enroll in the College of Applied Studies, an undergraduate must be certified by the Division of Undergraduate Studies or be a transfer student with fifty-two or more semester hours of accepted credit. Admission to the College of Applied Studies requires at least a 2.0 grade point average (GPA) in prior academic work and that the student is in good standing within the University. Since individual departments within the College of Applied Studies may stipulate higher admission standards, students should consult the appropriate chapters of this *General Bulletin* for specific requirements. Students applying for admission to one of the College of Applied Studies degree granting departments or to one of the non-degree programs must apply through Florida State University's Panama City Office of Admissions and Records online at *http://pc.fsu.edu/Admissions*.

Advising

Florida State University Panama City provides academic course advising to students through the Academic Advising and Student Success Center, located in room C117 of the Holley Academic Center. For more information, students may email *advising@pc.fsu.edu* or call *850-770-2288*. Students are also encouraged to meet often with their respective faculty for guidance on curriculum, research and professional/career development.

Programs Offered

The College of Applied Studies offers curricula leading to the Bachelor of Science (BS) degree. Students pursuing a baccalaureate degree in the College of Applied Studies may choose from the following degree programs:

- BS degree in Professional Communication
- BS degree in Public Safety and Security with a major in Law Enforcement Operations
- BS degree in Public Safety and Security with a major in Law Enforcement Intelligence
- BS degree in Public Safety and Security with a major in Crime Scene Investigation
- BS degree in Recreation, Tourism and Events
- BS to MS degree in Corporate and Public Communication (Combined Bachelor's/Master's Pathway)

Undergraduate Certificates

In addition to the degree programs, the College of Applied Studies offers two certificate programs that provide an additional specialized area of emphasis. The certificate programs offered are:

- Undergraduate Certificate in Underwater Crime Scene Investigation
- Undergraduate Certificate in Special Events

Additional information regarding the certificate programs may be found at *https://pc.fsu.edu/academics/college-applied-studies*.

Institutes and Centers

The **Science, Technology, Engineering and Mathematics (STEM) Institute** at FSU Panama City promotes educational excellence by providing educators with professional skills and research-based practices that foster exemplary teaching and inspire meaningful learning in STEM disciplines. The FSU Panama City STEM Institute is the Florida Engineering Affiliate for Project Lead the Way (PLTW). For more information, please visit *https://pc.fsu.edu/about-us/stem*.

Facilities

The College of Applied Studies is housed in seven buildings on the FSU Panama City campus. The campus occupies just over twenty-five acres. The most recent additions to the campus are a $7.9 million Administrative Services Center and a $32 million Holley Academic Center. The 14,000-square-foot Administrative Services Center, completed in March 2007, houses the police department, postal services center, maintenance department, and receiving area, as well as the central utility plant for the entire campus. The Holley Academic Center is the largest and most central building on campus. The Holley Center is a three-story facility in excess of 100,000 square feet and it houses twenty-one general purpose classrooms, a digital design studio, student success center, veteran's ready room, advising center, student seminar rooms, study and meeting rooms, a library and learning center, a 500-seat multi-purpose lecture hall/community room, and ten academic/computer laboratories in support of programs in public safety and security, civil and environmental engineering, computer science, electrical engineering, advanced scientific diving, and underwater crime scene investigation. The Holley Academic Center was named in recognition of Russell C. Holley's naming gift in honor and memory of his parents.

Scholarships

Students enrolled at FSU Panama City in the College of Applied Studies are eligible to apply for endowed scholarships. For more information on how you can apply or an application, please visit the Web site of the FSU Panama City Foundation at *http://pc.fsu.edu/admissions/tuition-fees/scholarships*.

University Honors and Honor Societies

The College of Applied Studies encourages eligible students to participate in university honors and "honors in the major" programs. For a list of University-wide honor societies officially recognized by Florida State University, requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*. College-wide honor societies officially recognized by the College of Applied Studies are listed below followed by discipline-specific societies. For complete details of activities and membership requirements, contact the individual organizations.

Leadership/Scholastic Societies

Garnet and Gold Scholar Society facilitates involvement and recognizes the engaged, well-rounded student who excels within and beyond the classroom in the areas of Leadership, Internship, Service, International, and Research. For more information, visit *https://garnetandgoldscholar.fsu.edu* or contact the FSU Panama City campus advisor Emily Kennelly by email at *ekennelly@admin.fsu.edu*.

Garnet Key Honor Society of the Panama City campus, founded in 1986, recognizes students primarily for service and scholarship, but also for spirit and leadership. Activities are generally service projects and functions for the Panama City campus. Applicants must have completed fifteen semester hours at that campus with a GPA of 3.5 or higher. For more information, e-mail *crios@pc.fsu.edu*.

Student Activities

The **Bass Club** provides students the opportunity to work together in a team environment and build strong relationships while learning sportsmanship and cooperative goal achievement. The purpose of this organization is to introduce students to competitive bass fishing (intramural), thus fostering a collegial atmosphere for healthy competition. To become a member, students must complete the organization's member application, maintain a 2.0 GPA, be in good standing with the University, and pay the required membership dues for B.A.S.S. Nation and other tournament organizations. Membership is open to any college student currently enrolled at FSU Panama City. For more information, contact Banyon Pelham at *bpelham@pc.fsu.edu.*

The **Communication Club** is affiliated with the FSU Panama City Communication Department and assists students in professional development and social networking. To become a member, students must complete the organization's member application, maintain a 2.0 GPA, be in good standing with the University, and pay the $15/semester (fall and spring) membership dues within one month of becoming a member. No University student may be denied membership on the basis of race, creed, sex, age, national origin, handicap, or religion. Membership is open to any college student currently enrolled at FSU Panama City. Members may also be from other schools. Members are not required to be Communications majors. For more information, contact Dr. Sandra Halvorson at *shalvorson@fsu.edu*.

The **Scuba, Hyperbaric, and Recreational Club (SHARC)** is a dive club established to coordinate and facilitate SCUBA training due to FSU Panama City student interest in scientific and recreational diving. Membership is open to all regardless of certification status. Certified divers that are members have access to club resources such as regulators, dive lights, and buoyancy compensators. For more information, contact Darren DeDario by e-mail at *sharcfsupc@gmail.com*, the FSU Panama City Dive Locker at *(850)770-2206*, or visit the club's Web site at *http://pc.fsu.edu//Students/Student-Organizations/SHARC*.

COLLEGE OF ARTS AND SCIENCES UNDERGRADUATE

Dean: Sam Huckaba; **Associate Deans:** Rob Contreras, Lois Hawkes, Jeanette Taylor

The oldest college at the University, the College of Arts and Sciences has provided generations of undergraduate students with instruction in the liberal arts disciplines that are essential for intellectual development and personal growth: English; history; humanities; and the physical, biological, mathematical, computational, and behavioral sciences. At the graduate level, too, the contributions of the College of Arts and Sciences have been integral to the evolution of the University. The first recorded Master's degree at the Florida State College for Women was awarded by the College of Arts and Sciences in 1908, and the first Doctorate at Florida State University was awarded in Chemistry in 1952.

College of Arts and Sciences faculty have earned national and international recognition for research, teaching, and distinguished service to the profession. In addition to awarding Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), Master of Arts (MA), Master of Fine Arts (MFA), Professional Science Masters (PSM), and Doctor of Philosophy (PhD) degrees, and heavily supporting the General Education Program, the College of Arts and Sciences offers an extensive array of foundation courses for pre-professional and professional programs.

Requirements

All students must meet the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. In addition, all students receiving a degree from the College of Arts and Sciences must satisfy the requirements listed in the following paragraphs.

In order to enroll in the College of Arts and Sciences, an undergraduate must be certified by the Division of Undergraduate Studies or be a transfer student with fifty-two or more semester hours of accepted credit. Admission to the College of Arts and Sciences requires at least a 2.0 grade point average (GPA) and completion of at least half of the General Education requirements including required English Composition and Quantitative/Logical Thinking courses. Since individual departments may stipulate higher admission standards, students should consult the appropriate chapters of this *General Bulletin* for specific requirements.

Foreign Language

The College of Arts and Sciences requires that Bachelor of Arts and Bachelor of Science students be proficient at the intermediate level in one language other than English. Students may satisfy the requirement by completing college coursework through the 2000 level or equivalent course of a classical or modern foreign language. Students enrolled in their first term at FSU and students with at least a 2.5 **FSU** GPA may take these courses on a satisfactory/unsatisfactory (S/U) basis, as long as they meet the published University deadline for declaring this intention. For information on University deadlines, refer to the "Academic Calendar" located on the Office of the University Registrar Web site at *http://registrar.fsu.edu*. A student taking coursework to fulfill the College's foreign language requirement must earn at least a "C–" or "S". Exceptions to this policy are rare and only granted in cases of documented learning disabilities which are specific to foreign language.

Hours used to fulfill the foreign language requirement may not be counted toward a major or minor. Native speakers of a language other than English and students who wish to demonstrate proficiency by means other than coursework should consult the Department of Modern Languages and Linguistics.

Please note that the College's foreign language requirement differs from the University's foreign language admissions requirement. It is important to understand that, although completion of two years of high school foreign language courses or two semesters of postsecondary foreign language will satisfy the University's admissions requirement, these courses **do not** satisfy the College of Arts and Sciences' foreign language graduation requirements for BA and BS students. Please consult the "Admissions" section of this *General Bulletin* for more information.

All students who intend to continue study of a modern foreign language at Florida State University in which they have previous experience (such as high school study or study abroad) must be placed into the appropriate course by the relevant department. Students with experience in French, German, and Spanish who continue with the same language must take the placement test before they enroll in a course in the Department of Modern Languages and Linguistics. Students pursuing proficiency in other languages must consult the relevant department for the appropriate placement procedures before enrolling.

Minor

Majors in the College of Arts and Sciences require the completion of an FSU approved minor. Exceptions include certain programs with collateral minors. Students completing a double major do not have to complete a minor. Students pursuing two degrees (dual degree or a second baccalaureate degree) must have a separate minor for each degree that is awarded by this College. If one of the degrees is to be awarded by another College in the University, that dean's office will specify any minor requirements. While many minors require only twelve semester hours, others require more. No courses used for satisfying the General Education requirements, the College foreign language requirement or major requirements may be counted toward the minor. The student's minor should be in a different department than the major. In a few cases it may be possible to take the minor in a different program, but within the same department as the major. Students wanting to pursue that possibility must consult with an advisor in the dean's office. Students must choose a minor from the list of approved FSU minors. See *https://academic-guide.fsu.edu/minors* for a list of FSU minors. Please note that completion of an FSU certificate program will satisfy the college minor requirement.

Requirements for the Major

See departmental entries for specific requirements. If courses used to satisfy major requirements are used to meet the General Education requirements, no more than four semester hours of these General Education courses may also be counted toward the major requirements.

Second Baccalaureate Degree or Dual Degree

Consecutive Bachelor's Degree Beyond the First Bachelor's Degree

Students may receive additional baccalaureate degrees beyond the first degree in cases where a bachelor's degree has already been awarded. University policy prohibits the awarding of more than one degree from the same degree program due to the overlap of core requirements of that degree program. A student completing a second bachelor's degree in the College of Arts and Sciences must complete a minimum of thirty semester hours in residence, a new major (including computer competency), a new minor, and demonstrate satisfaction of the College of Arts and Sciences' foreign language requirement. The additional thirty semester hours must be completed in residence after the completion of the first degree. Hours earned by the student during the completion of the first baccalaureate degree, over and above those actually required for the first degree, may not be included in the thirty semester hours. With regards to the major, students will be permitted to use the prerequisites and core requirements that had been completed in a prior bachelor's degree, but any elective courses cannot be applied to the second bachelor's degree. There are no General Education requirements for the second degree. Foreign language proficiency, once established, can be used towards the additional bachelor's degree requirements.

Dual Bachelor's Degrees

In certain cases, students may pursue multiple bachelor's degrees simultaneously. The requirement for earning concurrent, or dual, bachelor's degrees are: (1) satisfy the requirements for each major/minor as well as individual college requirements for both the first and the second degrees; (2) complete thirty semester hours in residence, in addition to the hours required for the first degree, for a minimum total of 150 earned hours, and (3) complete all University degree requirements. There are no General Education requirements for the additional degree(s).

Note: To distinguish between second baccalaureate degrees and second majors, see the appropriate paragraph under "Undergraduate Degree Requirements" in this *General Bulletin*.

Degree Granting Departments

Anthropology
Biological Sciences
Chemistry and Biochemistry
Classics
Computer Science
Earth, Ocean, and Atmospheric Science
English
History
Mathematics
Modern Languages and Linguistics
Philosophy
Physics
Psychology
Religion
Scientific Computing
Statistics

Non-Degree Granting Departments

Aerospace Studies
Military Science

COLLEGE OF BUSINESS
UNDERGRADUATE

Dean: Michael D. Hartline; **Associate Dean for Academic Programs:** Kathleen A. McCullough; **Associate Dean for College Operations:** Dennis Cradit

Mission

It is the mission of the College of Business to be a thought leader in business research and to teach students innovative ways to leverage risk management, entrepreneurial expertise, and the spectrum of business disciplines to create ethical, sustainable solutions.

General Information

The College of Business houses six business departments: the Department of Accounting; the Department of Business Analytics, Information Systems and Supply Chain; the Department of Finance; the Department of Management; the Department of Marketing; and the Department of Risk Management/Insurance, Real Estate, and Legal Studies.

Since its founding in 1950, the College of Business has provided quality business education to over 60,000 alumni who hold positions in regional, national, and international organizations. The College, through its faculty, curricula, and programs, is committed to educating and developing its students for careers as future business executives and leaders.

Over the years, the College of Business has been successful in building a very capable and motivated faculty. Faculty members are very productive researchers and effective teachers. These faculty members also maintain important contacts with the business community through various types of service and applied research activities.

As a result of its capable and dedicated faculty, the College of Business has been able to attract highly qualified students. These students have strong analytical and communicative aptitudes and have a spirit of enterprise and creativity. The interaction of these students with highly qualified faculty, coupled with well-designed program options, creates a stimulating learning environment.

The achievements of the College of Business have been recognized by the business community in the form of development funds for scholarships, endowed chairs, professorships, teaching and research grants, and other program activities.

Programs Offered

The College of Business offers curricula leading to the following degrees:

Bachelor of Science (BS)

Bachelor of Arts (BA)

Master of Business Administration (MBA)

Master of Accounting (MAcc)

Master of Science in Finance (MSF)

Master of Science (MS) in Business Analytics, Management, Management Information Systems, or Risk Management

Doctor of Philosophy (PhD) in Business Administration.

The College of Law and the College of Business offer a joint graduate pathway leading to the Juris Doctor (JD) and the Master of Business Administration (MBA) degrees. The College of Social Work and the College of Business offer a joint graduate pathway leading to the Master's in Social Work (MSW) and the Master of Business Administration (MBA) degrees. All of these business programs are fully accredited by AACSB-International, including separate accreditation of the programs in accounting.

Students pursuing a bachelor's degree choose from the following degree programs:

1. bachelor's in accounting
2. bachelor's in finance
3. bachelor's in management with a major in management or human resource management
4. bachelor's in management information systems
5. bachelor's in marketing with a major in marketing, professional sales, or retail management
6. bachelor's in real estate
7. bachelor's in risk management/insurance

Graduate Programs

The **Master of Business Administration (MBA)** program is an accelerated, thirty-nine semester hour program. The program is offered on a full-time and part-time basis. The full-time program begins once each year in the Summer term. The part-time MBA program is offered on campus or online and begins each semester. An online MBA with a major in Hospitality Management is also offered. Students are encouraged to have at least two years of work experience prior to entering the MBA program.

Students in the **Master of Accounting (MAcc)** program may major in either assurance services, accounting information systems, corporate accounting, or tax accounting. This program provides students with greater breadth and depth in accounting education than can be accomplished in the baccalaureate program. Students are admitted each semester.

The **Master of Science in Finance (MSF)** program begins each Summer and focuses on advanced, practical applications in finance. Most students in the program have an undergraduate degree in finance, but students with undergraduate degrees in related fields are also considered for admission.

The **Master of Science in Business Analytics (MS-BA)** program begins each Summer and focuses on developing advanced quantitative and data management skills to address business analytics questions. Students in the program have an undergraduate degree in a variety of disciplines such as business, economics, statistics, and others.

The **Master of Science in Management Information Systems** program prepares students for careers in information systems analysis and design. The program is designed for students with a background in business who are looking to enhance their information systems development skills and/or change careers to management information systems. The program is taught online.

The **Master of Science in Risk Management** is taught online. It is designed for professionals who wish to study part-time to advance and enhance their careers in the risk management/insurance industry.

The objective of the **Doctor of Philosophy (PhD) in Business Administration** is to prepare students for careers in university teaching and research. Students receive the Doctor of Philosophy in business administration and concentrate in one of the following areas: accounting, finance, management information systems, marketing, organizational behavior and human resources, risk management and insurance, or strategy.

Certificate and Minor Programs

The **Minor in Business Analytics** is a twelve-hour course of study for students. Students completing the program become analytically savvy graduates, who will be adept at working in interdisciplinary teams in any organization to solve complex business problems. The curriculum will provide students with skills in the fields of data mining, business intelligence, and analysis, building on the diverse skills and knowledge gained in their major business program.

The **Minor in Free Enterprise and Ethics** is a twelve-hour course of study which helps students develop an awareness of ethical choices viewed from a variety of economic, societal, civic, legal, and personal value system perspectives, as they relate to business practice in a free enterprise economy. It provides business students experience grappling with the kinds of realistic decisions they will encounter as practitioners.

The **Minor in General Business** is available to students in non-business programs. Students interested in completing a minor in general business should contact the **College of Business Undergraduate Programs Office** for additional information. This information is also available at *http://www.business.fsu.edu*. Course availability for students interested in a minor in general business is limited.

Institutes and Centers

The **BB&T Center for Free Enterprise** supports initiatives that offer students various perspectives on free enterprise and ethics.

The **Carl DeSantis Center for Executive Management Education** sponsors numerous outreach programs that strengthen the relationship between College of Business faculty and the business community.

The **Center for Human Resource Management** facilitates networking among HR professionals and FSU faculty and students, and establishes and transfers best practices that support the advancement of human resource management.

The **Center for Risk Management Education and Research** engages in meaningful and timely research projects designed to assist the industry, regulators, academics and consumers in understanding the insurance business and provides solutions to current insurance issues

The **Center for Real Estate** fosters interaction among students, faculty, and the real-estate community through forums in which executives and world-class scholars exchange ideas and share their insights with students.

The **Florida Catastrophic Storm Risk Management Center** is funded by the State of Florida to support the state's ability to prepare for, respond to, and recover from catastrophic storms.

The **Gene Taylor/Bank of America Center for Banking and Financial Studies** encourages excellence in education through research and service activities related to banking and finance.

The **Institute for Applied Business Research** conducts a wide range of marketing research and offers developmental support services to professionals in public transportation, tourism, and sports.

The **Jim Moran Institute for Global Entrepreneurship (JMI)** provides services to small businesses throughout Florida and provides students with opportunities to consult with and learn from successful entrepreneurs.

The **Sales Institute** is dedicated to providing world-class sales education and training utilizing the most updated sales training technologies developed through continuous research.

Facilities

The **Charles A. Rovetta Business Building** is ideally located near the center of campus adjacent to Strozier Library and the Oglesby Union. It contains modern classrooms, faculty and staff offices, and numerous support facilities. The **College of Business Technology Center** houses state-of-the-art computer laboratories and training rooms. It provides students access to the latest technology used in business. The **College of Business Undergraduate Programs Office and Graduate Programs Office** provide students with a wide variety of advising services.

Scholarships/Awards

Faculty

The College of Business has one Frances Eppes professor, several eminent scholar chairs, and numerous endowed professorships. These prestigious faculty positions are occupied by outstanding scholars who not only conduct research, but teach at both the graduate and undergraduate levels.

Student Awards and Honors

A number of organizations are available to students in the College of Business. These organizations include service clubs as well as honor societies and business fraternities. The most prestigious honor society in business is **Beta Gamma Sigma**. This national honor society for business students was founded in 1913. The Florida State University chapter was established in 1962. Election to membership is the highest honor one can achieve in academics in the business area. Membership is available to both undergraduate and graduate students and is based upon outstanding academic achievement.

Scholarships

The College of Business offers numerous scholarships, and financial aid is available for both undergraduate and graduate students. At the undergraduate level, the funding sources for the scholarships include the College of Business, specific individuals and firms, and various state and national industry associations. The amount and selection criteria of each award vary according to the program the award supports and the funding source. In addition to scholarships, the College of Business and the University provide numerous opportunities for part-time work as student assistants.

At the graduate level, the College of Business provides a number of fellowships to master's and doctoral students. Graduate research and teaching assistantships are also provided to master's and doctoral students.

Requirements

All of the undergraduate programs in the College of Business are designated as limited access programs. To pursue any major in the College of Business, students must meet the admission requirements for the limited access program they wish to pursue.

Students should complete the prerequisite courses required for admission during their first three to four semesters of college work. Students attending Florida state and community colleges should complete the prerequisite courses required for admission while fulfilling general education requirements leading to the Associate in Arts (AA) degree.

Admission Requirements

Admission to the AACSB accredited undergraduate business programs is based on availability of faculty and space in the business departments. For each admission cycle (academic year), a minimum grade point average (GPA) is established by the College of Business that limits enrollment to a number of students consistent with the available faculty and space. The AACSB accredited undergraduate business programs include the following majors: accounting, finance, human resource management, management, management information systems, marketing, professional sales, real estate, retail management, and risk management/insurance.

To be eligible for admission to one of the business majors above, each student must complete the following requirements:

1. Must have completed at least fifty-two acceptable semester hours;
2. Must have compiled the required GPA (based on all attempted coursework at the college level) that is in effect for the term in which application is made. The required GPA may change each year; information regarding the current required GPA is available at *http://www.business.fsu.edu*; and
3. Must have completed the following courses with a grade of "C–" or better in each course (or an equivalent course): ACG 2021, ACG 2071, CGS 2100 or CGS 2518, ECO 2013, ECO 2023, MAC 2233, and STA 2023.

To be considered for admission into one of the limited-access business majors, students must complete all admission requirements no later than their 5th mapping term, as determined by the College of Business.

Academic Policies

1. Students are required to meet graduation requirements specified in the University *General Bulletin* in effect at the time they are admitted to one of the limited access programs in the College of Business, or subsequent *General Bulletin*s including the *General Bulletin* in effect at the time they graduate, provided they graduate within a period of six years from the date of first entry.
2. Changes to this *General Bulletin* that have been formally approved prior to Fall 2019, but not in sufficient time to meet publication deadlines, will still be effective Fall 2019. Students can receive information on these changes in the undergraduate programs office of the College of Business.
3. All students must complete an official pre-graduation check in the undergraduate programs office of the College of Business during the semester they will earn one hundred semester hours or the semester prior to the semester in which they plan to graduate.
4. All students must apply for graduation through the myFSU portal during the second or third week of the semester in which they plan to graduate.
5. In all AACSB accredited undergraduate business programs, a minimum of thirty semester hours of the general business and major area requirements must be completed at Florida State University. Transfer of upper-level business courses must be from business colleges at other senior institutions, must carry prerequisites similar to those of the courses they are replacing, and must be approved by the College of Business. In evaluating this transfer credit, emphasis will be given to courses taken at other AACSB accredited business programs.
6. Students are not allowed duplicate credit hours for courses repeated in which they have made a "D-" or better.
7. The only courses offered by the business departments that may be taken on a satisfactory/unsatisfactory (S/U) basis are those courses restricted to S/U grades only.

COLLEGE OF COMMUNICATION AND INFORMATION UNDERGRADUATE

Dean: Lawrence C. Dennis; **Associate Deans:** Michelle M. Kazmer, Marcia Mardis, Paul Marty, Stephen McDowell, Ebrahim Randeree

The College of Communication and Information offers undergraduate degrees in Communication, Communication Science and Disorders, and Information Technology. These degree programs attract and prepare leaders who take responsibility for meeting the communication and information needs of all people and for engaging a diverse population in solving complex communication and information challenges. A world-wide transformation is changing both the way we communicate and the way we create, store, find, share, and use information. The College's educational programs provide classroom and experiential learning opportunities that help students understand the changing communication and information environment and make communication and information useful and accessible to everyone. If you have a passion for helping others, a desire to be at the heart of communication and information transformations, and want to get started on a rewarding and professional career, visit our website at *http://cci.fsu.edu* or contact our advisors.

Undergraduate Degree Programs

School of Communication

The School of Communication offers a degree in communication and digital media studies with two majors (digital media production and media/communication studies), and a degree in professional communication with two majors (advertising and public relations). These majors are organized according to various applications of communication skills and expertise in our society. Advertising majors focus on account management, creative strategy, and media planning. Public relations majors concentrate on public relations writing, tactics, and campaign management skills. These majors prepare for careers in advertising and public relations agencies and organizations. Media/Communication Studies majors are applicable to a number of career fields including law, media industries, media research, and communications. Digital media production majors pursue management or production careers in broadcasting, cable, video production, and related fields. Visit *http://comm.cci.fsu.edu/* for more information.

School of Communication Science and Disorders

The mission of the Florida State University School of Communication Science and Disorders is to generate and disseminate knowledge related to communication processes and disorders. The school prepares undergraduate and graduate students to demonstrate broad-based knowledge of communication sciences and to apply theory and research findings to clinical practice. The graduate program prepares speech-language pathologists to provide effective diagnostic and treatment services to individuals with a wide variety of speech, language, and hearing impairments. It prepares clinical scientists to generate new knowledge pertaining to communication processes and innovative strategies for evaluating and managing communication disorders.

School of Information

Information, communication, and technology influence almost all forms of human activity in our increasingly interconnected society. As such, there is a growing demand for Information Technology (IT) professionals who can think critically and innovatively about how technology can support the information and communication needs of various stakeholders in different sociotechnical environments.

The School offers a Bachelor of Science in Information Technology (IT) program with two majors: (1) Information Technology (IT) and (2) Information, Communication, and Technology (ICT). The curriculum provides students with the knowledge and skills they need to apply and manage information systems and technologies effectively and ethically, as well as to communicate and work collaboratively with diverse users and stakeholders in various contexts and sociotechnical settings. IT majors develop and hone skills in areas such as web and mobile application development, database design, data modeling, data warehousing, SQL programming, data analytics, cyber/data security, network administration, health informatics, and social informatics. IT majors hone skills in areas such as network administration and security, design and development, health informatics, and social informatics. ICT majors learn how to strategically apply and manage web-based and social media, and other digital and interactive technologies to support a variety of communication needs in areas such as public relations, news delivery, promotion and advertising, and social marketing. The Bachelor of Science in IT integrates hands-on technology learning, service learning and user-centered approaches in solving a variety of information technology challenges. A combined bachelor's/master's pathway (BS/MS) combining a bachelor's degree in Information Technology with a master's degree in Information Technology is also available and offers eligible undergraduate students the opportunity to take up to twelve semester hours of graduate coursework, which may be counted toward both the BS and MS degrees. An undergraduate certificate in Health Information Technology is also available. For more information, visit *http://ischool.cci.fsu.edu/academics/undergrad*.

Admissions Information

All three Schools within the College of Communication and Information (CCI) offer Bachelor of Science (BS) degree programs.

Programs of study leading to the Bachelor of Arts (BA) and Bachelor of Science (BS) degrees are offered through the School of Communication Science and Disorders and the School of Communication. Each major within the Schools is part of a limited access program requiring a separate application. Admission to each major is competitive. Interested students should indicate their major preference on their University application and seek advising through the College of Communication and Information. Candidates for the baccalaureate degrees also must comply with general University regulations governing these degrees and must complete the major and minor requirements of one of the Schools identified above. See School entries for specific area concentrations and requirements. To be awarded the BA degree, the student must complete the specified university-wide requirements for that degree.

Students seeking admission into the Bachelor of Science (BS) in Information Technology (IT) program in the School of Information must have completed specific program prerequisites and a program of liberal studies with an overall grade point average (GPA) of 2.0 or better. To be awarded the BS in IT degree, the student must complete the specified University-wide requirements for that degree including forty-two credit hours for either the IT or ICT majors. Students are advised to seek advising through CCI to prepare a program of study for their chosen major area.

See School entries in this *General Bulletin* and the College website, *http://cci.fsu.edu/* for specific information regarding each Schools' admission requirements.

Requirements for the Second Baccalaureate Degree (Dual Certificate)

A student completing a second bachelor's degree in the Schools must complete at least thirty semester hours at Florida State University, in addition to the required hours for the first degree. The student must complete a new major and a new minor (with no overlap between these and the first major and minor).

Note: To distinguish between second baccalaureates and second majors (also known as double majors), see the appropriate paragraph under "Undergraduate Degree Requirements" in this *General Bulletin*.

Honors in the Major

The Schools of Communication, Communication Science and Disorders, and Information offer an honors program in the major. It is designed to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Dean's List

Students who in any term carry a full-time course load of twelve or more letter-grade semester hours with a grade point average (GPA) of 3.5 or above earn the distinction of being on the dean's list.

Combined Bachelor's/Master's Pathway

The College of Communication and Information has developed a combined bachelor's/master's pathway (BS to MS) combining a bachelor's degree in Information Technology with a master's degree in Information Technology. This pathway offers eligible undergraduate students the opportunity to take up to twelve semester hours of graduate coursework, which may be counted toward both the BS and MS degrees. Visit the website for more details: *http://ischool.cci.fsu.edu/academics/undergrad*.

The College of Communication and Information has developed a combined bachelor's/master's degree pathway (BS to MS, BA to MA) combining a bachelor's degree in Communication and Digital Media; Information, Communication and Technology; or Professional Communication and a master's degree in the Integrated Marketing Communication; Media and Communication Studies; or Public Interest Media and Communication programs. This pathway provides eligible undergraduate students the opportunity to take up to twelve semester hours of graduate coursework. May count toward both the bachelor's and master's degrees. Check the website for more details: *http://cci.fsu.edu*.

Graduate Degree Programs

Students making application for admission to one of the School's graduate programs must also apply through the University Office of Admissions see *http://admissions.fsu.edu* for more information.

Communication

The graduate programs in Communication offer several specialized emphases leading to the Master of Arts, Master of Science, and Doctor of Philosophy degrees (see the departmental entry in the *Graduate Bulletin* and the website *http://comm.cci.fsu.edu/* for more information.)

Communication Science and Disorders

Programs of study leading to the Master of Science, Master of Arts, Advanced Master's, and Doctor of Philosophy degrees in the School of Communication Science and Disorders are described in the *Graduate Bulletin* and on the website, at *http://commdisorders.cci.fsu.edu/*.

Information

Established in 1947 as a professional school, the School of Information (iSchool) offers several graduate degree programs. The Master of Arts (MA) and Master of Science (MS) degree programs in Information are accredited by the *American Library Association* (ALA). The iSchool also offers a Master of Science in Information Technology (MSIT), a Specialist degree, and a Doctor of Philosophy (PhD) degree, as well as certificate programs in areas such as Health Information Technology, Information Architecture, Information Leadership and Management, Reference Services, and Youth Services. The School is a member of the *Association for Information Science and Technology* (ASIS&T): *https://www.asist.org/*, the *Association for Library and Information Science Education* (ALISE): *http://www.alise.org/*, and is a founding member of the *iSchools* movement: *http://ischools.org/*. For more information, visit the *Graduate Bulletin* or our website at *http://ischool.cci.fsu.edu/academics/graduate/*.

Facilities

The College of Communication and Information offers undergraduate students opportunities to enrich their learning experiences through participation in a variety of research centers, service, classroom facilities, and student professional organizations. These include the following centers and institutes:

Center for Adult Language Laboratory
Center for Augmentative and Alternative Communication Laboratory
Communication and Early Childhood Research and Practice Center
Communication Research Center
Center for Hispanic Marketing Communication
Center for Information Analysis and Organization
Goldstein Virtual Library
Information Use, Management & Policy Institute (Information Institute)
Institute for Digital Information and Scientific Communication (iDigInfo)
Institute for Intercultural Communication and Research
L. L. Schendel Speech and Hearing Clinic
Neurolinguistic-Neurocognitive Research Center
North Florida Center for Stuttering
Project Management Center
Research and Language and Literacy Lab
Seminole Productions
Speech and Voice Science Laboratory

In addition, the College provides students with access to state-of-the-art facilities and support through a wide range of computer and media production labs and technical support services, including the following:

- Computer classrooms in the University Center for advanced media production and statistical analysis
- IT Help Desk to provide access to technology support, advanced software systems, and high-end computer systems
- New technology center in the William Johnston Building for instruction in networking, databases, media production, health information technology, mobile and enterprise information systems
- WVFS, the university's "college radio station"

Students within the college are very active in professional development organizations including the following:

Advertising Club
American Library Association Student Chapter
Association of Information Technology Professionals
Beta Phi Mu Honor Society
Communication Graduate Student Association
Forensics (Debate and Speech)
International Communication Association
Lambda Pi Eta
National Communication Association
National Student Speech Language Hearing Association
Public Relations Society of America
STARS Alliance for Broadening Participation in Computing
Women in IT/ICT Sharing Experiences (WISE)

COLLEGE OF CRIMINOLOGY AND CRIMINAL JUSTICE UNDERGRADUATE

Dean: Thomas G. Blomberg

Florida State University has one of the oldest criminology programs in the world. The College of Criminology and Criminal Justice at FSU is an intellectual community where students are involved in and learn about advancing criminological research that links science and theory to matters of effective and responsible public policy. The College values scholarly collaboration and emphasizes the importance of research that has real-world implications.

At Florida State University, the discipline of criminology and criminal justice is viewed broadly as encompassing the scientific study of crime, criminals, the lawmaking process, the criminal justice system, crime prevention, and the treatment of offenders. The program is interdisciplinary and integrative in nature, drawing upon many different disciplines and paradigms for theoretical and methodological approaches. Among these disciplines are anthropology, biology, computer science, demography, economics, geography, history, law, philosophy, political science, psychology, public administration, social work, sociology, and urban studies.

The College's programs focus both on theory and on practice in the belief that neither stands alone. Sound practice demands sound theory, and theories are developed and modified through careful study as they are put into practice. Based on this perspective, the undergraduate programs prepare individuals for a career in the criminal justice system, a related field, or additional study at the graduate level in criminology or law.

The College of Criminology and Criminal Justice offers undergraduate and graduate programs leading to the Bachelor of Science (BS) and Bachelor of Arts (BA) in criminology, and in cyber criminology; Master of Science (MS); Master of Arts (MA); and the Doctor of Philosophy (PhD). A combined bachelor's/master's pathway is offered for qualified criminology and criminal justice students. A distance-learning Master of Science degree program in criminal justice studies is available. Also available are joint graduate pathways with the School of Public Administration and Policy and the College of Social Work. For undergraduates, a certificate is available in criminology (distance learning). A distance learning Bachelor of Science degree program in criminology is also available. Some evening courses are offered for undergraduate and graduate students.

Students in the College have an important opportunity for hands-on experience that is afforded by the College's internship program. The University's location in Tallahassee gives students access to extensive research and employment opportunities in various state and federal courts as well as several state correctional facilities, drug treatment facilities, a federal prison, and a variety of private sector institutions and organizations. The Legislature, governor, cabinet, attorney general, and the Florida Departments of Corrections, Probation/Parole, and Law Enforcement are located in Tallahassee. Study in the College of Criminology and Criminal Justice provides access to criminological facilities that match or exceed any in the nation.

University Requirements

All students of Florida State University must fulfill the Liberal Studies Program requirements set forth in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. Transfer students who have earned an Associate of Arts degree from a Florida public community college or state university will be considered to have met the liberal studies requirement.

Academic Performance and Retention

The College of Criminology and Criminal Justice reserves the right to discontinue enrollment of any student in the College at any time if satisfactory academic progress is not being made. Specifically, students majoring in criminology must earn a grade of "C" or better in the three core courses and maintain a major GPA of 2.0. A student who has accumulated three unsatisfactory grades, (D+, D, D–, F, U, IE) in criminology and criminal justice courses taken for college credit at Florida State University or elsewhere, whether repeated or not, will not be readmitted, permitted to continue, or permitted to graduate with a major in criminology or criminal justice.

Students majoring in cyber criminology must earn a "C" or better in core courses CCJ 2020, CCJ 3011, and CCJ 4700 and a grade of "C–" or better in all other courses for the major, and maintain an overall GPA of 2.0. Students with more than four grades below "C–" (D+, D, D–, F, U, IE) in criminology, criminal justice, computer science, or prerequisite coursework, whether taken at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue in the major.

A student who applies for readmission to the College must meet the major and degree requirements of the *General Bulletin* in effect on the date of readmission.

Major Requirements for Criminology

To major in criminology, a student must complete thirty-six semester hours in criminology and/or criminal justice studies coursework, including three core courses. The three core courses are Introduction to Criminal Justice (CCJ 2020), Criminology (CCJ 3011), and Introduction to Research Methods in Criminology (CCJ 4700). Two core courses (CCJ 3011 and CCJ 4700) are expected to be taken at Florida State University; CCJ 2020 may be taken at the community college level. A minimum grade of "C" must be obtained in each core course. For acceptable core course substitutions, see the department for an approved list. An optional one-semester, full-time (fifteen semester hour) or part-time (eight semester hour) internship is available. If a student chooses to complete a full or part-time internship, only three semester hours will count toward the required thirty-six hours in the major. Students in the major are required to complete either a full-time internship, a minor, or second major in another department or program outside the College of Criminology and Criminal Justice and must meet all requirements stipulated by the respective department or program.

For students transferring from another four-year university, at least twenty-seven semester hours must be earned at Florida State University in the College of Criminology and Criminal Justice; the University requires that the last thirty semester hours prior to graduation be taken at Florida State University. In addition, all University requirements must be met for either the Bachelor of Arts (BA) or the Bachelor of Science (BS) degrees.

Major Requirements for Cyber Criminology

To major in cyber criminology, a student must complete fifty-two semester hours in criminology and criminal justice, computer science, and mathematics. Students must complete twenty-four hours in criminology and criminal justice and twenty-five hours in computer science coursework, including eight core courses. The required core courses from criminology and criminal justice are CCJ 2020, CCJ 3011, CCJ 4700, and CJE 3110. The required core courses from computer science are CDA 3100, COP 3014, COP 3330, and COP 3353. A total of six hours of capstone coursework representing criminology and criminal justice and computer science is required. Students must also complete three hours of Discrete Mathematics (MAD 2104). From an approved list, students must choose nine additional hours in criminology and criminal justice and twelve additional hours in computer science coursework. Students must earn a grade of "C" or better in CCJ 2020, CCJ 3011, and CCJ 4700, a "C–" or better in all other courses for the major, and maintain an overall GPA of 2.0. A minor is not required.

For students transferring from another four-year university, transfer courses within the major are evaluated on an individual basis; the University requires the last thirty semester hours prior to graduation be taken at Florida State University. In addition, all University requirements must be met for either the Bachelor of Arts (BA) or the Bachelor of Science (BS) degrees.

Approved criminology and criminal justice and computer science courses include: CCJ 3644, CCJ 3666, CCJ 4497, CCJ 4614, CJC 3010, CJE 4610, CJJ 4010, CJL 3510, CJL 4064.

Internships

A variety of internships is available at the local, state, and federal levels. Internships can be chosen from the fields of law enforcement, courts, corrections, criminal justice planning, criminological research, and private sector opportunities. The internship is available for juniors and seniors who have completed the core courses (CCJ 2020, 3011, 4700). The intern receives a satisfactory/unsatisfactory (S/U) grade, and full credit is given upon successful completion of both the academic component and the work hours.

Students are advised that information pertaining to all matters of public record, such as arrests and convictions, may be required by the agencies accepting interns. Although a reasonable effort is made to place a student in an internship, the University will not be liable if a student cannot be placed. Students are responsible for all living and transportation expenses during the field experiences.

Minor Requirements

A minor in criminology may be obtained upon completion of four classes. Introduction to Criminal Justice (CCJ 2020) and nine additional semester hours in criminology and criminal justice are required for a total of twelve hours. CCJ 2020 may be taken at the community college level prior to admission to Florida State University. Students cannot take CCJ 4905r (Directed Individual Study), CCJ 4933r (Seminar in Criminology), or CCJ 4938r (Special Topics in Criminology) to fulfill the minor. Grades of "C–" or better are required for all coursework in the minor.

specialized studies in criminology

The College of Criminology and Criminal Justice offers a specialized studies program in criminology and criminal justice and victim services.

Honors in the Major

The College of Criminology and Criminal Justice encourages eligible students to participate in the honors in the major program. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Combined Bachelor's/Master's Pathway

The College of Criminology and Criminal Justice offers a combined bachelor's/master's pathway (BS/MS). This pathway provides eligible undergraduate students the opportunity to take up to twelve semester hours of graduate coursework (with the permission of the appropriate instructor). These twelve semester hours may count toward both the BS and MS degrees.

Combined Pathway Requirements

Participants in the combined BS/MS pathway must:

1. Have completed ninety semester hours of undergraduate coursework
2. Have a minimum GPA of 3.25
3. Be a major/double major in the College
4. Take the GRE and earn a score between 148 and 160
5. Meet with an academic advisor to determine eligibility for the Combined Bachelor's/Master's Pathway

Note: Enrollment in the combined bachelor's/master's pathway does not guarantee acceptance to the graduate program in the College of Criminology and Criminal Justice. Students must still apply to the graduate program and meet all graduate requirements to earn the master's degree. Effective August 2011, the GRE Revised General Test replaced the GRE General Test. To learn more about this new test, go to *http://www.ets.org/gre*.

Student Activities

Alpha Phi Sigma is the nationally recognized honor society of students in the College of Criminology and Criminal Justice. The society recognizes academic excellence of undergraduate and graduate students with a declared criminology/criminal justice major or minor. To become a member, a student must have completed one third of the total hours required for graduation at his or her institution. The local chapter advisor or faculty member must recommend the student. Undergraduate students must maintain a 3.2 overall GPA and a 3.2 in their criminology and criminal justice courses. Students must also rank in the top thirty-five percent of their class and have completed a minimum of four courses within the criminology and criminal justice curriculum. Graduate students are required to maintain a GPA of 3.4 in all courses.

The American Criminal Justice Association-Lambda Alpha Epsilon is devoted to continuing high levels of professionalism in all areas of criminal justice. Any student committed to the field of criminal justice is invited to participate. The chapter holds regular meetings to provide members opportunities to exchange ideas and information. The Lambda Chapter of ACJA has much to offer students, including a pistol team, a crime scene team, and an academic team.

Scholarships, Awards, and Financial Aid

There are several scholarships available to students majoring in criminology and criminal justice or in cyber criminology. The online application can be found at *http://criminology.fsu.edu/degrees/undergraduate-programs/scholarships/*. A committee appointed by the Dean selects the recipients.

Undergraduate scholarships and awards include: **Frank A. and Lynn W. Baker, The Crockett Family Fund for Excellence, Eugene and Rosalind Czajkoski, Corey D. Dahlem, Gregory D. Ereckson Memorial, Jerry A. and Carolyn S. Glass, Kelley R. Ivey, Ernest Kearns Ponce De Leon, Florida Sheriffs' Association Memorial, Relgalf, James C. Sweat, Frederick Simon Family Memorial, Doyle E. Young Endowed Memorial, Sgt. Daniel "Dale" Green Memorial,** and **Rob Williams**. In addition, the **Robert L. Clark Memorial Award**, **Joe Harris Memorial Award**, and **The Florida Sheriffs Association Law Enforcement Academy Scholarship** are presented yearly to outstanding graduate students.

DEDMAN SCHOOL OF HOSPITALITY UNDERGRADUATE

Director: Donald G. Farr

Established in 1947, the Dedman School of Hospitality (DSH) is the second oldest U.S. hospitality management program of its kind in a public university. The program is regarded by industry recruiters as one of the most highly respected, offering domestic and international studies focusing on luxury resort and lodging management, restaurant and fine dining management, beverage management, event management, and private club management.

The Dedman School is a free-standing academic unit of Florida State University, offering both a major in Hospitality and Tourism Management and a major in Global Club Management and Leadership as options within its Bachelor of Science in Hospitality Management degree. The school is a favored hiring source for managers of the world's leading hotels, restaurants, clubs, and resorts. School administrators and faculty members work with top industry organizations, executives and alumni to provide students with a relevant curriculum, valuable internship experiences and networking/mentorship opportunities. Graduates are prepared to fill the growing global demand for multicultural awareness in hospitality managers and experience high industry placement rates.

The school's internship program encourages experiential learning as a complementary approach to classroom education. It offers established internships across the U.S. and those with world-class operations in many other countries, such as in Ireland and Australia. Students are also encouraged to enrich their global education through the Dedman School's Leysin, Switzerland and Nice, France Study Abroad Programs.

Networking and leadership opportunities are available through student organizations — such as the Club Manager Association of America, Eta Sigma Delta, and the Florida Restaurant & Lodging Association — and through numerous events held at the school. The Dedman School's unique curriculum parallels requirements for membership in Florida State's elite Garnet & Gold Scholar Society, thereby supporting student leaders.

Programs Offered

The Hospitality and Tourism Management major prepares students for leadership positions in hospitality management in hotels, restaurants, and other service industries. The school employs a global approach to prepare students to serve a multinational clientele and to fill the growing international demand for hospitality industry managers. Graduates of the program currently enjoy top managerial and ownership positions in hotels, resorts, restaurants, clubs, and other facets of the hospitality and golf industries. The requirement of practical, on-the-job experience, where the student applies classroom knowledge to the workplace, prepares the Dedman School of Hospitality graduate for the operational challenges of industry.

The major in Global Club Management and Leadership is built on a track record of preparing students with business knowledge and skills, developing international internships at top hospitality organizations, and building life-long relationships with industry partners. Graduates are prepared to enjoy being a part of an exciting industry segment that includes private country clubs, international hotels, resorts, private yacht clubs, private dining clubs, and international golf management companies.

Institutes and Centers

The International Center for Hospitality Research and Development serves as a key provider to international industry professionals of research on a wide array of topics, including tourism marketing, visitors, lodging and service management, food safety, operations policy analysis, and training.

The Marriott Career and Professional Development Center prepares our students to launch careers by helping them develop relationships with top hospitality organizations through internships and work experiences. Students have the opportunity to polish interview skills, fine-tune résumés and cover letters, and network with industry leaders, recruiters, and prominent alumni.

Facilities

The Dedman School of Hospitality is located in the University Center Building B, which provides for the specialized academic/training objectives established by the school. In addition to classrooms, this state-of-the-art facility provides hospitality students with teaching kitchens, a technology center, a publication resource center, and a placement center. The building also contains an affiliated professionally managed city club that provides hospitality students with real-world food and beverage experience in elegant surroundings. In addition to the facilities located in the University Center Building, the Global Club Management and Leadership major is housed at 2550 Pottsdammer Street on the second floor of the Don Veller Seminole Golf Course Clubhouse.

COLLEGE OF EDUCATION
UNDERGRADUATE

Dean: Damon Andrew; **Associate Dean for Academic Affairs:** Amy R. Guerette; **Associate Dean for Faculty Development:** Robert Erklund; **Associate Dean for Research:** Robert Reiser

The College of Education offers undergraduate and combined-degree pathways leading to the Bachelor of Arts or Bachelor of Science degree in seven fields of study (majors).

Undergraduate Departments, Majors, Certificates, and Educator Preparation Programs

Department of Educational Leadership and Policy Studies

Certificate in Leadership Studies, Undergraduate

School of Teacher Education

Certificate in Teaching English to Speakers of Other Languages (TESOL), Undergraduate

Elementary Education (Combined BS/MS Pathway)

English Education (Combined BS/MS Pathway)

FSU-Teach Program in Secondary Science or Mathematics Teaching

Social Science Education (Combined BS/MS Pathway)

Special Education Teaching (Combined BS/MS Pathway)

Visual Disabilities Education (Combined BS/MS Pathway)

Department of Sport Management

Sport Management

Admissions Standards for University Educator Preparation Programs

All educator preparation programs at Florida State University are governed by the Florida Department of Education rules. These rules require that all students must meet specific criteria to be admitted into an educator preparation program. See 'Planning Guide to Educator Preparation Programs' later in this chapter.

All undergraduate Educator Preparation programs in the College of Education are *limited access* programs with capped enrollments. Students who satisfy the minimum requirements listed in this *General Bulletin* are not guaranteed admission to these programs. Admission to limited enrollment programs is competitive and regularly exceeds the minimum qualifications described in the next section.

All educator preparation programs have retention and exit standards that exceed normal University requirements. Refer to the department section for specific admission requirements and check with a departmental advisor.

Planning Guide to Educator Preparation Programs

Inventory of State-Approved Programs

The following College of Education graduate programs have been approved by the Florida Department of Education (DOE) as Initial Certification Educator Preparation Programs:

- Elementary Education (Certification Area: Elementary Education grades K-6 with endorsements in ESOL and Reading)
- English Teaching (Certification Area: English grades 6–12 with an endorsement in ESOL)
- Special Education Teaching (Certification Area: Exceptional Student Education grades K–12 with endorsements in ESOL, Autism and Reading)
- Visual Disabilities (Certification Area: Visual Impairment grades K–12)
- Social Science Teaching (Certification Area: Social Science grades 6–12)

The following undergraduate programs have been approved by the DOE as Initial Certification Educator Preparation Programs; they are listed with the name of the Florida State University College in which they are located:

- Applied Geosciences/FSU Teach (Certification Area: Earth-Space Science grades 6–12), College of Arts and Sciences
- Biology/FSU Teach (Certification Area: Biology grades 6–12), College of Arts and Sciences
- Chemical Science/FSU Teach (Certification Area: Chemistry grades 6–12), College of Arts and Sciences
- Environmental Science/FSU Teach (Certification Area: Earth-Space Science grades 6–12), College of Arts and Sciences
- Computer Science
- Mathematics/FSU Teach (Certification Area: Mathematics grades 6–12), College of Arts and Sciences

Combined Bachelor's/Master's Pathways in Educator Preparation

All undergraduate Educator Preparation programs in the College of Education are combined BS/MS degree pathways. The BS/MS pathway requires two years of undergraduate upper-division coursework plus one additional year of graduate coursework. Admission to the graduate portion of the Combined Bachelor's/Master's Pathway requires a 3.00 upper-division undergraduate GPA.

Students admitted to a Combined Bachelor's/Master's Pathway will earn both a bachelor's and master's degree in their chosen major.

Undergraduate Educator Preparation Programs at Florida State University

- FSU-Teach Program (double major with College of Arts & Sciences for those who wish to teach mathematics and/or science, grades 6–12)
- Music Education (College of Music)

General Education Requirements

Students should consult with an advisor to determine how to simultaneously satisfy Florida State University liberal studies requirements and educator preparation general education core curriculum requirements.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree program:

Education Core Prerequisites

1. EDF X005
2. SMT X043 (FSU-Teach)
3. SMT X053 (FSU-Teach)

Department/Program Prerequisites

See department listings in the *General Bulletin* for each department/program's specific prerequisite requirements.

Common prerequisites and admissions criteria for state-approved educator preparation programs are subject to revision based on changes in Section 1004.04, Florida Statutes, Public Accountability and State Approval for Educator Preparation Programs, State Board of Education Rule 6A-4.0021, Florida Teacher Certification Examinations, and State Board of Education Rule 6A-5.066, Approval of Educator Preparation Programs.

Criteria for Admission to Educator Preparation

School of Teacher Education

1. Have at least a 2.5 (on a 4.0 scale) cumulative grade point average (GPA) on all attempted college-level coursework
2. Completion of at least sixty credit hours of college-level coursework
3. Completion of FSU Liberal Studies curriculum or Florida AA degree. Out of state transfer students should contact the Office of Academic Services and Intern Support (OASIS) to determine eligibility for admission.
4. Completion of FSU Oral Competency requirement
5. Completion of FSU Computer Skills Competency requirement
6. Completion of FSU Cross Cultural and Diversity requirement
7. Completion of FSU Natural Science Lab requirement
8. Have a grade of "C–" or better in each required general education (liberal studies) English and each general education (liberal studies) mathematics course
9. Take and achieve a passing score on all four sections of the General Knowledge portion of the Florida Teacher Certification Exam
10. Complete an application for admission to Educator Preparation. The application is available online at *https://education.fsu.edu/admissions/undergraduate-admissions/teacher-education*. **This step is distinct from admission to the 'upper division' college or school.**

FSU-Teach Program in Secondary Science or Math

1. Have at least a 2.5 (on a 4.0 scale) cumulative grade point average (GPA) on all attempted college-level coursework
2. Have a grade of "C–" or better in each required general education (liberal studies) English and each general education (liberal studies) mathematics course
3. Take and achieve a passing score on all four sections of the General Knowledge portion of the Florida Teacher Certification Exam
4. Complete an application for admission to Educator Preparation. The application is available online at *https://education.fsu.edu/admissions/undergraduate-admissions/teacher-education*. **This step is distinct from admission to the 'upper division' college or school.**

College of Music

1. Have at least a 2.5 (on a 4.0 scale) cumulative grade point average (GPA) on all attempted college-level coursework
2. Have a grade of "C–" or better in each required general education (liberal studies) English and each general education (liberal studies) mathematics course
3. Take and achieve a passing score on all four sections of the General Knowledge portion of the Florida Teacher Certification Exam
4. Complete an application for admission to Educator Preparation. The application is available online at *https://education.fsu.edu/admissions/undergraduate-admissions/teacher-education*. **This step is distinct from admission to the 'upper division' college or school.**

Clinical Experience

1. A series of clinical experiences in diverse settings throughout the program that culminates with a full-time student teaching experience of at least ten weeks duration in an approved setting; and
2. A Level II Security Check is required for all FSU students who will have direct contact with PreK-12 students. Students should be aware that if you have been arrested for certain crimes you may not be considered for a teaching position. Fingerprinting and Level II-background clearance are required for any placement in a PreK-12 setting.

Note: Students should consult with a program advisor for specific course requirements.

Professional Behaviors and Dispositions

While enrolled in an educator preparation program, the student is expected to demonstrate positive behaviors and dispositions that conform to the "Code of Ethics" (*State Board of Education Rule 6A10.080 FAC*) and the "Principles of Professional Conduct in Florida" (*State Board of Education Rule 6A10.081 FAC*). The programs reserve the right to refuse or discontinue enrollment of any student who violates these expectations or in the judgment of a majority of the program faculty does not meet the program standards. Information on professional behaviors and dispositions can be found on the Educator Preparation Web site: *https://education.fsu.edu/student-resources/student-academic-services-oasis/educator-preparation*.

Application to Student Teaching

An application to student teaching must be submitted to OASIS, *2301 Stone Building*. Application materials, the Student Teaching Calendar, and the Student Teaching Handbook are only available online at *https://education.fsu.edu/student-resources/student-academic-services-oasis/educator-preparation*.

Eligibility Requirements for Student Teaching Placement

To be eligible for final field placement as a student teacher, candidates must complete the following steps:

1. Admission to teacher education outlined above under 'Criteria for Admission and Application to Educator Preparation'
2. Successful completion of at least one semester of residence at Florida State University
3. Successful completion of all required courses prior to the student teaching semester
4. Successful completion of major coursework and professional education coursework outlined above under 'Clinical Experience' prior to student teaching
5. Achievement of a cumulative GPA of 2.5 or above for undergraduate Educator Preparation programs
6. Achievement of a cumulative GPA of 3.0 or above for combined BS/MS Educator Preparation pathways
7. Successful completion of specific clinical experiences as required by the program or University
8. Successful completion of FTCE Subject Area Exam and Professional Educator Exam
9. Demonstrate positive dispositions and behaviors at the 'Target' level the semester prior to student teaching

Program Completion Requirements for Candidates in the School of Teacher Education

Students must complete the following requirements to graduate from an educator preparation program:

1. Maintain a cumulative GPA of 2.5 or above for undergraduate Educator Preparation programs
2. Maintain a cumulative GPA of 3.0 or above for combined BS/MS Educator Preparation pathways
3. Demonstrate achievement of standards and completion of specific coursework requirements set by the program
4. Meet all University graduation requirements, including requirements mentioned above under 'Planning Guide to Education Preparation Programs'
5. Achieve a passing score on the General Knowledge, Professional Educator, and Subject Area portions of the Florida Teacher Certification Exam (FTCE) prior to entry to the final-term internship
6. Successfully complete the student teaching experience including successful demonstration of the Florida Educator Accomplished Practices (FEAPs)
7. Receive verification from the appropriate academic program of successful demonstration of the Florida Educator Accomplished Practices (FEAPs), which includes the knowledge, skills, and dispositions necessary to help all students learn; and
8. Obtain final approval of the appropriate academic program and the Office of Academic Services and Intern Support.

Honors Program

The College of Education offers honors in the major work in several departmental and interdepartmental programs. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Office of Academic Services and Intern Support (OASIS)

The Office of Academic Services and Intern Support (OASIS) provides a wide array of professional and administrative services to students and faculty in the College and throughout the University. Under the direction of the Associate Dean for Academic Affairs, OASIS is responsible for:

- providing centralized academic advisement for Basic Division students interested in majoring in education
- collecting and processing applications for admission and readmission to the College of Education
- maintaining the Dean's academic records for all students formally admitted to COE programs
- monitoring students' progress toward the degree
- collecting and processing applications for admission to educator preparation
- conducting graduation checks and clearing students for teacher certification
- providing other consultative and administrative services for the students and faculty in the College.

OASIS is also responsible for the assignment and placement of teacher candidates in their final-term student teaching experiences. The Intern Coordinator works with teacher education programs in the University and the public schools of Florida in the organization of student-teaching placements and the selection of supervising teachers for candidate internships. Faculty members work closely with supervising teachers and candidates in the planning and coordination of the student teaching experience. **OASIS is responsible for the final identification and screening of all students who make application for student teaching.**

Academic programs have the discretion to establish a minimum group size of two or more student teachers per county. Academic programs may also restrict placement to particular counties. Exceptions to this policy will be made only through successful appeal on the part of a student to the University Student Teaching Appeals Committee. Student Teaching assignments are subject to availability and district and school or agency acceptance. Therefore, placements are not guaranteed.

Academic programs are expected to inform their students of departmental placement policies well in advance of the semester of student teaching so that students may have the opportunity to plan appropriately. Also note that final term placement is conditionally based on the successful completion of all relevant program requirements, including passage of all required sections of the Florida Teacher Certification Exam (FTCE), and acceptance by an approved school district or agency.

Applicants are specifically not guaranteed assignment to their home county nor to the immediate and general vicinity of the campus. Submission of an application by a candidate constitutes an agreement to accept assignment in the school and county where it is determined that the candidate's academic program objectives for student teaching can best be achieved.

A candidate is expected to meet professional standards as expressed in the pertinent school laws of the state of Florida. Candidates are also informed that, consistent with applicable law, information pertaining to all matters of public record, such as arrest and/or convictions in a court of law, may be routinely furnished to public schools as well as prospective employers. Finally, **fingerprinting** and **Level II-background clearance** are **required** for final-term placement in a public-school setting**.**

FAMU–FSU COLLEGE OF ENGINEERING
UNDERGRADUATE

Dean: J. Murray Gibson; **Associate Deans:** Michelle Rambo-Roddenberry, Farrukh Alvi, Mark Weatherspoon

The accelerating pace of technological developments has created an ever-increasing demand for highly qualified, professional engineers to maintain the high-tech momentum already achieved and to extend and direct its course. Expanding population and corresponding demands for new products, structures, designs, and improved services have posed new challenges to present and future engineers. Accordingly, the College of Engineering, through its curricula, strives to educate and train engineers to use scientific knowledge and problem-solving skills to determine the best solutions to the problems of today and the future.

It is expected that students who conscientiously apply themselves and successfully complete one of the broad engineering programs will not only be technically trained, but also humanistically and socially educated, and thereby be well prepared to make a significant contribution to the world in which they work.

An engineering student can pursue any one of several career plans, according to personal ambitions, interest, and abilities. The student may pursue the Bachelor of Science degree or an advanced research-oriented graduate program leading to the Master of Science or Doctor of Philosophy degrees.

An engineer usually works as a member of a team to solve a problem or to design products or processes. The engineer's responsibility may include some of the following: (1) the conception of an idea, including a careful delineation of the problem; (2) the design of an item or process, including operational and production requirements; (3) the selection of materials; (4) the determination of markets; (5) the assessment of sociological effects and determination of methods for controlling these effects; (6) the design or selection of machines for production; and (7) the control of costs. Currently, over two-thirds of all technical positions and a large percentage of managerial positions in industry are occupied by engineers.

History and Joint College

The FAMU–FSU College of Engineering was authorized by the 1982 legislature as a joint program between Florida Agricultural and Mechanical University and Florida State University. The joint nature of the college allows a student to register at either Florida A&M University or Florida State University and receive a degree in any of the college's programs. A student entering the college applies for admission at one of the two universities and must satisfy the admission and general degree requirements of the university, college, and department. The degree is granted through the College of Engineering by the university where the student is enrolled while completing upper-division studies. All College of Engineering classrooms and administrative and faculty offices are housed in a modern engineering complex located at *2525 Pottsdamer Street* in Innovation Park.

Mission

The mission of the College of Engineering is as follows: to provide an innovative academic program of excellence at both the undergraduate and graduate levels, judged by the highest standards in the field and recognized by national peers; to attract and graduate greater numbers of under-represented minorities and women in professional engineering, engineering teaching, and research; and to attain national and international recognition of the college through the educational and research achievements and the professional service of its faculty and students.

Programs and Degrees

The college offers professional programs of study leading to the Bachelor of Science, Master of Science, and Doctor of Philosophy in biomedical, chemical, civil, electrical, industrial, and mechanical engineering; the Bachelor of Science in computer engineering; the Master of Science in systems engineering; and the Master of Engineering in civil engineering. All undergraduate degree programs (except biomedical engineering) are accredited by the Engineering Accreditation Commission of ABET, *http://www.abet.org*, the recognized accreditor for college and university programs in applied and natural science, computing, engineering, and technology. Bachelor of Science in biomedical engineering is a new degree program introduced Spring 2019 and will go through the accreditation process after its first graduating class. Some degree programs offer multiple majors including environmental engineering and materials engineering. More complete information can be found at the college website, *http://www.eng.famu.fsu.edu/*, and in the department sections of this *General Bulletin*.

Facilities

The college occupies over 200,000 square feet of classroom, office, and laboratory space in a building complex especially designed for engineering education. It is located less than three miles from each main campus, in an area adjacent to Innovation Park, which also houses the following research facilities: the National High Magnetic Field Laboratory (NHMFL); the Aeropropulsion, Mechatronics and Energy Center (AME); the Center for Advanced Power Systems (CAPS); the High Performance Materials Institute (HPMI); and other university, public, and private organizations engaged in research, development, and entrepreneurship. The college also maintains other research centers, including the Applied Superconductivity Center (ASC), Center for Accessibility and Safety for an Aging Population (ASAP), Center for Intelligent Systems, Control, and Robotics (CISCOR), Energy and Sustainability Center (ESC), Florida Center for Advanced Aero-Propulsion (FCAAP), and the Future Renewable Electrical Energy Delivery and Management (FREEDM) Systems Center.

Each department of the college operates specialized laboratories for teaching and research that are listed in the department sections of this *General Bulletin*. In addition, the college operates computing facilities, a library and reading room, as well as machine and electronic shops for the common use by all programs.

Library

The mission of the Engineering Library is to support and enhance the learning, teaching, research, and service activities of the FAMU-FSU engineering communities by providing organized access to quality information in all formats, promoting information literacy, preserving information, and engaging in collaborative partnerships to disseminate ideas for advancing intellectual discovery. The main book and journal collections for engineering are housed in the Dirac Science Library at Florida State University and in the Coleman Library at Florida A&M University. The Engineering Library is a satellite for both university libraries and houses a small collection along with extensive access to electronic collections. Materials not available at the library may be requested through Interlibrary Loan or U-Borrow.

The library is serviced by a full-time librarian and several assistants who offer research assistance in person, over the telephone, and via e-mail and text. Instruction in library and information literacy is available to classes and groups upon request.

Library services also include Flip video cameras, laptops, headphones, and other technology that are available for check out upon request. Modern group study tables, lounging stations, and tutoring areas are in the Engineering Library for student use.

Computing Facilities

Students have access to various computing resources at the College of Engineering. The college has over 2,000 computing devices connected to its local network, managed by College Computing Services (CCS). Computers connect to the college's network via 1Gbps and 100Mbps Ethernet connections, as well as a high-speed wireless LAN. Over 200 high-end Intel-compatible workstations are provided for general student use. These computers are housed in four labs: one of the computer labs is open 24 hours a day when classes are in session, while the other three are used primarily as classrooms. The college also provides workstations in public areas that are available to students 24 hours a day, 365 days a year. A group of Linux Windows servers backed by a Storage Area Network provide a range of computing services to the college user community. CCS continues to evaluate and upgrade computer capabilities as computational needs grow. Additionally, both universities provide on-campus facilities that are available to all students. To support the instructional and research missions of the college, a variety of software packages is provided, including major general-purpose packages, as well as special applications oriented toward particular disciplines. Research labs at the college contain dozens of computational systems to provide enhanced research capabilities, including complex number crunching for simulations. Researchers also take advantage of shared computational clusters located at the college and at each university. The college's computing infrastructure uses high-end core router/switches interconnected to edge switching via gigabit fiber. The col-

lege internet connection is a gigabit link connecting through the Florida State University backbone (Florida State University acts as the network manager and internet services provider for the college) allowing for fast access to the Internet2 and the LambdaRail network. Florida A&M University's computing facilities are also connected to the Tallahassee MAN, thus providing a link to the college for its students. The college has state-of-the-art instructional classrooms. The multimedia equipment in every classroom generally includes LCD projector, document camera, BluRay player, and sound system. The ceiling-mounted LCD projector is used for large-scale projection and is linked to the PC at the instructor's console. Multiple rooms are used for distance learning; these rooms have additional equipment to support synchronous and asynchronous instructional delivery. Distance delivery of classes to/from the FSU Panama City campus occurs regularly, and distance-learning collaborations with other universities are frequent. Live and recorded programs, classes, and events are streamed via the Internet to authorized viewers. Multi-point IP videoconferencing is also available.

Supporting Facilities

Other nearby resources include the following: FSU Information Technology Services; the National High Magnetic Field Laboratory (the 'Mag Lab'); the Center for Advanced Power Systems (CAPS); the High-Performance Materials Institute (HPMI); and the Aero-propulsion, Mechatronics and Energy Center (AME). Information on additional research centers affiliated with the College of Engineering is available at: *https://eng.famu.fsu.edu/research*. The college also operates the Tallahassee Challenger Learning Center, a K-12 STEM outreach facility serving the southeastern U.S. Located in downtown Tallahassee, the center houses a 3-D IMAX theatre, planetarium, and a Challenger Space Mission simulator with Control Center. Other supporting facilities are Northwest Regional Data Center (NWRDC), Florida Department of Transportation research facilities, WFSU Public Broadcasting television and radio stations, as well as FAMU Information Services.

Scholarships

Thanks to donations from industry partners, educational programs, and private donors, the College of Engineering offers a limited number of scholarships to qualified engineering students. Students can obtain scholarship information from the Office of the Associate Dean for Student Services and Undergraduate Affairs or by visiting the college website at *https://www.eng.famu.fsu.edu/scholarships*.

Career Services

The college houses the Engineering Career Services Office to provide students with career-related services. The office assists students in career and employment advising, including résumé, cover letter, and personal statement writing, internship co-op opportunity, and permanent job searches nationwide. Career Services staff also aid in preparing engineering students for interviews and presentations at career expositions, such as the STEM Career & Internship Fair in the Fall and Spring semesters.

Honors in the Major

The College of Engineering offers honors in the major in several departmental programs. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Requirements for Admission and Retention in an Engineering Major

Engineering is a demanding discipline, and students majoring in engineering must follow a required sequence of courses and achieve a high level of proficiency. All engineering students are subject to a uniform set of academic requirements agreed to by both FAMU and FSU, in addition to any other academic requirements stated in the respective university catalog and bulletin. These requirements, which are reviewed and revised as needed by the College of Engineering, have been established to ensure that program graduates receive a quality education and make progress toward satisfying engineering major degree requirements.

Pre-Engineering Requirements

All first-year engineering students (first year in college or first-year transfer students) are initially coded as pre-engineering students until they satisfy the following pre-engineering requirements:

1. An overall GPA of 2.0 or better.
2. A grade of "C–" or better, from any institution attended, in EGN 1004L First-Year Engineering Laboratory, Calculus I, Calculus II, and General Physics I. Intended chemical and biomedical engineering majors shall replace General Physics I with General Chemistry I for the purpose of declaring the major. Only a single repeated attempt in only **one** of the four courses listed above is allowed.
3. Students who meet the following conditions may be eligible to receive an exemption from the First-Year Engineering Laboratory (FYEL) course: (1) students who are seeking a second bachelor's degree, (2) students who have transfer credit for a similar course taken at a higher education institution, (3) student veterans who have received an honorable discharge from the U.S. military, or (4) students who transfer into the college having already received credit for all other pre-engineering courses listed above. Students who are eligible for an FYEL exemption must declare their intended engineering major during their first semester at the college or they lose their eligibility for the exemption. Students should contact the Office of the Associate Dean for Student Services and Undergraduate Affairs if they feel they qualify for the exemption. Any student who transfers out of pre-engineering before completing the FYEL course and then desires to transfer back to engineering must complete the course or its equivalent.
4. Any student who needs two repeated attempts to complete the four courses may be considered for continuation in engineering if additional grade and coursework requirements are satisfied. Contact the Student Services office at the College of Engineering for details. Any student who needs three or more repeated attempts to complete the four courses listed above does not satisfy this requirement and will not be allowed to continue in the engineering program. There are **NO exceptions** to this requirement. Grades of "W" **are not** considered as repeated attempts.

Once a pre-engineering student satisfies all pre-engineering requirements, he/she may visit the Student Services office to initiate the transfer process to his/her intended engineering major prior to the beginning of the following semester.

Course Grade Requirement and Practice

1. It is the policy of the college not to assign "plus and minus (+/–)" grades for undergraduate engineering courses.
2. The college requires that all engineering students earn a grade of "C" or better in all engineering courses that apply toward the degree. A course grade of "D" may be waived by the department chair or designee; and
3. A student who is failing a course cannot receive a grade of Incomplete (I). Students who receive a grade of Incomplete must complete all course requirements during the next term of the student's enrollment.

Repeated Course Attempts Policy

A student who has an excessive number of repeated engineering course attempts may be placed on probation with their major and may have a mapping hold placed on their record. The student may continue with his/her original engineering major only upon the approval of his/her academic department.

Engineering Course Prerequisite Policy

It is the student's responsibility to be aware of the prerequisites of an engineering course prior to enrolling in it. A student may contact the engineering dean or department chair for additional information concerning course prerequisites and this policy. Engineering academic departments reserve the right to administratively cancel the course enrollment of any student who does not meet course prerequisites at any time during the semester, with no refund of tuition and fees.

Course Withdrawal/Drop Policy

The Course Withdrawal/Drop Policy at the College of Engineering is different from the policy at either University. Students who seek to withdraw from the university or drop a course should do so by the drop deadline established by the College of Engineering as outlined below:

1. **Current Semester Withdrawal/Drop**
   Engineering students may drop from any course in the current semester for any reason up to and including the end of the seventh week of classes. Engineering late drop period goes into effect after the seventh week and up to the late drop deadline of each semester. There may be financial aid and other implications for dropping a course, so students should always contact their academic advisor first. All pre-engineering students and students classified as Lower Division by FSU are limited to a total of two "late drops" only. Students who reach their "two late drops" limit will not be permitted another late drop until they enter their intended engineering major and leave Lower Division. Unused late drops may not be "banked." Students who are coded in a degree granting engineering major and are classified as Upper Division at FSU

are permitted three "late drops" while coded as such. Students wishing to withdraw from the university by dropping all of their courses may do so up to the late drop deadline. Engineering students will not be permitted to drop or withdraw after the late drop deadline except in documented cases in which the justification for the drop/withdrawal is due to extenuating circumstances which are beyond the student's immediate control. The drop/withdrawal deadlines are posted on the College of Engineering website (*https://www.eng.famu.fsu.edu/*) each semester. Students will be responsible for the grade they receive in all enrolled courses in the semester after the course drop/withdrawal deadline.

2. **Retroactive Withdrawal/Drop**
A student may apply for a retroactive withdrawal from a course in which he or she received a grade of "D" or "F" for extenuating circumstances beyond the student's control. Extenuating circumstances must fall into one of these four categories: (1) medical issues, (2) death of an immediate family member, (3) military service, or (4) other. Each application is reviewed by a committee of engineering faculty to determine the merit of the request. Applications must be submitted before the deadline set each semester. This deadline will be emailed to students via their university email accounts. Additionally, applications received more than one year after the original course attempt will not be accepted. Applications and more information can be found online at *https://www.eng.famu.fsu.edu/student-resources.*

Transfer Students

Students who plan to enroll in another institution for the first two years and then transfer into the College of Engineering should use great care in selecting freshman and sophomore coursework. To be admitted to an engineering major, transfer students must have satisfied the same pre-engineering requirements as students who take all their coursework at FSU. Transfer students who will earn an AA degree prior to enrollment at the college must have completed at least Calculus I. Students are strongly advised to consult with the college as early as possible concerning their first two years of study. Students who transfer out of an engineering major and then desire to transfer back to the college may be subject to additional academic requirements before their request to transfer is considered. Please consult with the Student Services office for more information.

Bachelor of Science Degree Requirements

A student who has taken a college preparatory curriculum in high school including algebra, geometry, trigonometry, physics, and chemistry can complete the requirements for the Bachelor of Science degree in four years and one summer with an average load of sixteen hours per semester. A student with superior high school training may take advantage of opportunities for advanced placement through the university's programs for acceleration. In order to satisfy the State of Florida Division of Colleges and Universities requirement of summer attendance, it is recommended that students enroll in the summer session at the end of the first year. Students who are not prepared to begin with Calculus I (MAC 2311) may need to attend additional summer sessions.

The engineering curriculum is made up of five components: liberal studies, first-year engineering laboratory, engineering core, required courses in the engineering major area, and technical electives.

General Education Requirement

All students must meet university requirements for baccalaureate degrees stated in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. Of the thirty-six semester hours required in general education courses, thirteen of these are automatically satisfied by the engineering core courses listed herein. The engineering student must take a total of twenty-four semester hours in the areas of English, ethics/social responsibility, history, humanities/cultural practices, natural sciences, and social sciences. Students unprepared to begin calculus at the university level must, of course, also complete the necessary mathematics coursework preparatory to calculus. All prospective engineering students should select humanities and social science courses to meet university requirements.

Engineering Core

All graduates of the college must master a common body of knowledge about their profession. This has been addressed by the adoption of an engineering core for all students seeking the BS in Engineering. Some of these courses may be completed at a community college that offers a pre-engineering track. Others are only offered within the college.

The engineering core, which consists of basic science, mathematics, and professional courses, ensures that every student is provided with a solid background education regardless of his or her chosen engineering major. The required courses are listed below:

CHM 1045	General Chemistry I (3)
CHM 1045L	General Chemistry I Laboratory (1)
EEL 3003	Introduction to Electrical Engineering (3)
EEL 3003L	Introduction to Electrical Engineering Lab (1)
EGM 3512	Engineering Mechanics (4)
EGN 2123	Computer Graphics for Engineers (2)
EGN 3613	Principles of Engineering Economy* (2)
EML 3100	Thermodynamics* (2)
MAC 2311	Calculus with Analytical Geometry I (4)
MAC 2312	Calculus with Analytical Geometry II (4)
MAC 2313	Calculus with Analytical Geometry III (5)
MAP 2302	Ordinary Differential Equations (3)
PHY 2048C	General Physics A (5)
PHY 2049C	General Physics B (5)

* These courses are required for most engineering degree programs, depending on the discipline.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this university degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the university without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

1. MAC X311 or MAC X281
2. MAC X312 or MAC X282
3. MAC X313 or MAC X283
4. MAP X302 or MAP X305
5. CHM X045/X045L or CHM X045C or CHS X440/X440L
6. CHM X046/X046L or CHM X046C*
7. PHY X048/X048L or PHY X048C, or PHY X043 and PHY X048L
8. PHY X049/X049L or PHY X049C, or PHY X044 and PHY X049L

*Chemical and biomedical engineering majors

Engineering Major Area

Course requirements for engineering major areas consist of additional mathematics and basic science courses, engineering science courses, and engineering design courses. Current requirements for engineering major areas are included in the advising materials in the academic departments.

Definition of Prefixes

EEL—Electrical Engineering
EGM—Engineering Mechanics
EGN—General Engineering
EML—Mechanical Engineering

Undergraduate Courses

EEL 3003. Introduction to Electrical Engineering (3). Prerequisites: MAC 2312 and PHY 2049C. This course is an introduction to electrical engineering concepts for non-electrical engineering majors. Covers a broad range of topics including basic circuit theory, semiconductor devices, instrumentation, amplifiers, and machines. Not accepted for credit toward BSEE and BSCPE.

EEL 3003L. Introduction to Electrical Engineering Laboratory (1). Prerequisites: MAC 2312 and PHY 2049C. Corequisite: EEL 3003. This laboratory supports EEL 3003. Must be taken concurrently with first enrollment in EEL 3003. Must be dropped if EEL 3003 is dropped.

EGM 3512. Engineering Mechanics (4). Prerequisites: MAC 2312 and PHY 2048. Corequisite: MAC 2313. This course covers statics and dynamics of particles and rigid bodies. Topics include free-body diagrams, couples, resultants, equilibrium of particles and rigid bodies in two and three dimensions, and forces in trusses, frames, and machines. Other topics include centroids, centers of mass, internal shear forces and bending moments in beams, shear and moment diagrams, friction, area moments of inertia, parallel axis theorem, work/energy, as well as impulse and momentum methods.

EGN 1004L. First Year Engineering Laboratory (1). This laboratory includes an emphasis on student time management, a variety of products and processes, and computer-aided problem solving. Product/process involves sketching and drawing pertinent diagrams by hand, and learning the history and engineering concepts involved.

EGN 2123. Computer Graphics for Engineers (2). Corequisite: MAC 2311. This course covers principles of engineering graphics: visualization, spreadsheet applications, graphical calculus, and descriptive geometry. Also introduces the engineering design process and CAD systems.

EGN 3613. Principles of Engineering Economy (2). Prerequisite: MAC 2313. This course emphasizes discrete cash flow diagrams, cash flow equivalence factors, standard criteria for comparing project proposals, special cash flow topics, special analysis, and case studies.

EML 3100. Thermodynamics (2). Prerequisites: CHM 1045, MAC 2312, and PHY 2048. This course discusses the fundamentals of thermodynamics. System description, common properties. Properties of pure substances. Mathematical foundations. First and Second Laws of Thermodynamics, closed and open systems. Equations of state and general thermodynamic relations. For non-mechanical engineering majors.

COLLEGE OF FINE ARTS
UNDERGRADUATE

Dean: James Frazier, EdD, MFA

The College of Fine Arts was formed in 2005, with the combination of the former School of Visual Arts and Dance and the School of Theatre. The College has six academic units:

Department of Art

Department of Art Education

Department of Art History

Department of Interior Architecture and Design

School of Dance

School of Theatre

These academic units offer an extensive program of instruction in all areas of the visual arts, theatre, and dance. In fact, every level of undergraduate and graduate degree that a university can offer in these areas is represented within the College, including the established terminal degree in each discipline. Accordingly, the College is unique in the state of Florida.

Enhancement of the fine and performing arts is one of Florida State University's specific goals as presented in its mission statement. The comprehensive nature and consistent quality of the College may be credited in large part to the recognition and support of the arts evident in the University. The very idea of arts training within a university context is held to be fundamentally important to an individual's education in today's society. The College of Fine Arts shares much in common with an independent arts school, but the differences are more important than the similarities. The University strives toward education of the whole person, and it has a great variety of cultural and curricular resources to reach this end. Therefore, our students have the opportunity to benefit from the entire University, a warm and friendly residential college and major graduate research institution. There is no substitute for this environment.

The College promotes the visual arts, design, theatre, and dance within this community. Its goal is to provide a broad-based liberal arts education for students, while at the same time training them to be dancers, actors, designers, artists, scholars, teachers, or other professionals in the field. It functions to enrich their lives and to provide them with the means of self-expression in an increasingly complex and impersonal technological society—a society ever more dependent upon visual language and information. The study and practice of the arts are therefore viewed as a necessary link in the educational system, both as a learning process and as a means of personal fulfillment. Measures are applied within the College—and indeed throughout Florida State University's campus—to keep the spirit of open inquiry vital and productive.

Regardless of the department of a student's major, the College of Fine Arts provides an unusual opportunity for working with a distinguished faculty of nationally and internationally recognized artists and scholars, all of whom teach undergraduate as well as graduate students.

Requirements of the College

By and large the College has few requirements that go beyond those stipulated by the University. As appropriate, these requirements are provided in the narratives describing the individual departments and programs. No minor is required by the College. Five programs grant degrees categorized as "limited access" in the sense that they are proficiency based: (1) the Bachelor of Fine Arts (BFA) in art (studio) and Master of Fine Arts (MFA) in art (studio); (2) the BFA and MFA in dance; (3) the BFA in acting and in music theatre and the MFA in acting, costume design, directing, technical production, and theatre management; and, (4) the Bachelor of Science and Bachelor of Arts degrees in Interior Design in the Department of Interior Architecture and Design. Entrance is gained through portfolio review or audition.

The Program in Interdisciplinary Computing

The College of Fine Arts supports the Program in Interdisciplinary Computing (PIC) with representation on the PIC Steering Committee. PIC is a non-degree granting program established to develop, support, and promote computing and information technology courses that empower FSU students to innovate and lead in their respective fields. Courses listed with PIC cover a wide range of computer skills with each course focusing on the application of those skills to the student's discipline. See *https://innovation.fsu.edu/* for more information about PIC and a list of current PIC courses.

Facilities

In addition to the lecture rooms, general classrooms, seminar rooms, and media-specific laboratories (e.g., printmaking, electronic imaging, ceramics, sculpture, photography, digital fabrication, and the like), four specialized facilities merit particular mention. First, art students in designated degree programs are provided individual studios, making it possible for them to work in a healthy environment that promotes the cross-fertilization of ideas and constructive debate. Students at different stages of development learn from each other as well as from their professors, who regularly come to their studios for tutorials and critiques. These studios are housed in the Carnaghi Arts Building. Second, dance students train in what are arguably the best university dance facilities in the nation, including seven spacious, comfortable studios and their own fully-equipped professional dance theatre, experimental black box theatre, and grand studio; in addition, students explore dance technology in state-of-the-art labs. Third, theatre students train and perform in four specialized venues, including two traditional proscenium theatres, a lab theatre, and a stage for student-produced works. Finally, students in art education, art history, and interior architecture and design work in specifically designed and dedicated spaces in the newly renovated William Johnston Building located in the center of campus. Interior Architecture & Design students in their junior, senior, and graduate years have dedicated studio space to enrich their interaction and the creative process.

Honors in the Major

The College of Fine Arts offers honors in the major in several departmental and interdepartmental programs. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Study Abroad

The University offers many opportunities for international study open to all qualified state university students. Study-abroad programs range in nature from long-established study centers in Florence, Italy, and London, England, to recently developed programs in Spain and France. Operated by Florida State University, they provide the opportunity for a truly rewarding educational and cultural experience. Representing as it does a collegial body of students of art, the College of Fine Arts has a particular affinity for the Florence program, one that has led to a history of involvement since the founding of the program in 1966, largely through the efforts of the art history faculty. In every year that it has existed, at least one member of the College faculty has taught in Florence, and the College has significant representation among the students studying there. Of particular significance to students of theatre is the London program, with its year-round theatre offerings. Students of theatre, art, dance, design, and art history flourish in the rich, humanistic environments of these magnificent cities and cultural centers. This they can do usually without disrupting their sequence of courses and without loss of residency, since the Florence and London campuses are true extensions of the Tallahassee campus.

Museum Theory and Practice

The College of Fine Arts is the academic home of Florida State University's museum theory and practice specialized study program. Open to graduate students of all departments, the program offers theoretical, practical, and methodological training in museum management, curatorship, fundraising, collections management, education and interpretation, marketing, exhibition development, and other museum topics. The curriculum includes courses taught by full-time faculty and practicing museum professionals, internships, and special museum projects. Emphasis is placed on career guidance and finding a position in the museum profession. Students have opportunities for first-hand experience at the College's Museum of Fine Arts, and in other regional and national museums. Florida State University's International Programs offer museum internships at international institutions in cities such as London and Florence.

At the undergraduate level, students studying art history may obtain a concentration in museum studies.

The Florida State University Museum of Fine Arts

The Florida State University Museum of Fine Arts is first and foremost an extension of the teaching mission of the College. Large, modern, and spacious, it houses the permanent collection and several times a year hosts

student and faculty shows. In addition, the school faculty and museum staff pride themselves on originating shows of national prominence, documented through professional catalogs distinguished for their scholarship. The Florida State University Museum of Fine Arts is a community resource of regional significance in the Southeast and is fully accredited by the American Alliance of Museums.

Maggie Allesee National Center for Choreography

The mission of the Maggie Allesee National Center for Choreography (MANCC) is to raise the value of the creative process in dance by providing (1) a model of support for professional choreographic creativity within a comprehensive, graduate research university, (2) access to a stimulating environment where experimentation, exploration, and life-long learning are both valued and encouraged, and (3) opportunities for engagement with the creative process in dance to the national field as well as our students, staff, faculty, and community.

Facility for Arts Research

The Facility for Arts Research (FAR) offers space and specialized equipment for experimental printmaking, spatial audio, electronics, and digital fabrication to researchers, faculty, and students as part of a rigorous interdisciplinary investigation into art making. FAR engages and educates 21st century makers in the collaborative, cross-disciplinary experiences of contemporary arts research, supporting and promoting the integration of digital and traditional art and design methods to create unique objects that might be impossible to make in other ways.

Accreditation

The College of Fine Arts is fully accredited according to discipline as appropriate by the National Association of Schools of Art and Design, the National Association of Schools of Dance, the National College Association for Teacher Education, the Council for Interior Design Accreditation, and the National Association of Schools of Theatre.

THE GRADUATE SCHOOL
UNDERGRADUATE

Dean: Mark Riley; **Senior Associate Dean:** Judith Devine; **Associate Deans:** Deborah Fadool, Brian Barton; **Assistant Deans:** Lisa Liseno, Adrienne Stephenson

The University's first graduate degree was a Master of Science (MS) degree in psychology that was awarded to Barbara Elizabeth James in 1903. Boris Gutbezahl, a student in the Department of Chemistry, was awarded the University's first Doctor of Philosophy (PhD) degree in 1952. The mission of the Graduate School is to advance the quality and integrity of graduate education. The Dean of the Graduate School is responsible for the broad oversight of all graduate programs. Florida State University offers an extensive range of graduate and professional programs through the fifteen colleges. Graduate education at FSU includes 112 master's degrees, 11 specialist and advanced master's degrees, and 70 doctoral degrees. Professional degrees are also offered in Law, Nursing, and Medicine. In addition, a variety of opportunities are available for students interested in advanced degrees, including interdisciplinary degree programs, joint graduate pathways, dual degrees, and combined bachelor's/master's degree pathways. Florida State University also offers several online academic degree programs and graduate certificate programs. Details about these programs can be found in the appropriate department chapter of the *Graduate Bulletin*, and online at The Graduate School Web site *http://gradschool.fsu.edu*.

Offices, Centers, and Special Programs

The **Office of Graduate Fellowships and Awards**, a unit of The Graduate School, assists current graduate students in identifying and applying for external fellowships, grants, and awards. The office provides a variety of workshops and events to introduce national funding opportunities, teach strategies for creating competitive applications, and discuss relevant campus policies and procedures. Additionally, students may seek one-on-one support as they polish their proposals. Entering graduate students may learn more about getting started with external funding opportunities at The Graduate School's *New Graduate Student Orientation*. For more information, call *(850) 645-0850*, e-mail *ogfa-info@fsu.edu* or visit the Web site at *http://ogfa.fsu.edu*.

Current undergraduate students can obtain similar support services from the Office of National Fellowships as they begin their graduate planning. For further details, please visit their Web site at *http://onf.fsu.edu*.

The **Frederick L. Jenks Center for Intensive English Studies (CIES)** provides intensive instruction in the English language to non-English speakers. Its primary target audience is international scholars who are preparing to pursue degree work in American colleges and universities. In addition, CIES evaluates the English speaking proficiency of FSU's international Teaching Assistants (TAs) through its administration and scoring of the SPEAK test. Along with this assessment, the Center provides credit-bearing classes for those prospective international TAs who need further development of their speaking proficiency in English. CIES also offers a seven-week Certificate in Teaching English as a Foreign Language for FSU students, or any in the community, who wish to go abroad to teach English. For further information, call *(850) 644-4797* or visit the Web site at *http://cies.fsu.edu*.

The **Program for Instructional Excellence (PIE)** is a University program that helps prepare graduate student TAs for their instructional role at FSU and their future career in academia. The PIE program also supports departmental TA training. Through its programs, PIE creates opportunities to foster a sense of collaboration and community among graduate student TAs. For more information, visit the PIE Web site at *http://pie.fsu.edu*.

The **Fellows Society** is an interdisciplinary scholarly community consisting of graduate students who hold competitive national fellowships and university-wide fellowships administered by The Graduate School. The mission of the Fellows Society is to have Fellows participate in regular events, including the Fellows Forum, the Annual Induction and Networking Session, President's Social, monthly research sharing luncheon series, and other special events designed to expand the intellectual horizons of its members through interdisciplinary engagement and leadership development. For more information, visit *http://gradschool.fsu.edu/fellows-society*.

Fellowships, Assistantships, and Awards

The Graduate School administers several internal University-wide fellowship and award programs to support or recognize the achievements of new and returning graduate students. Many graduate students receive financial support (stipend and tuition waivers) as Teaching Assistants, Research Assistants, or Graduate Assistants. Interested students should contact departments and administrative units directly for more details and information. For assistance with external fellowships and awards, contact the Office of Graduate Fellowships and Awards at *(850) 645-0850*, e-mail *ogfa-info@fsu.edu*, or visit the Web site at *http://ogfa.fsu.edu*.

Details of these programs, with updated deadlines and due dates, are provided each year on the Graduate School Web site at *http://gradschool.fsu.edu*.

COLLEGE OF HUMAN SCIENCES
UNDERGRADUATE

Dean: Michael D. Delp; **Associate Deans**: Gregory J. Harris, Robert C. Hickner; **Mack and Effie Campbell Tyner Eminent Scholars:** Konrad Bloch (deceased), John Kinsella (deceased), Francis D. Fincham, William Ruben, William Jerome Vereen, Richard Lerner, James Banks, Richard Palmiter, Susan Watkins; **Deans Emeritae:** Margaret A. Sitton, Penny Ralston, Billie Collier

The College of Human Sciences, which began in 1905, is the flagship program in human sciences in Florida and has as its mission to address global challenges and opportunities related to the physical, behavioral, and economic factors influencing the health and development of individuals, families, and communities. The College, which through its mission focuses on some of the most urgent issues in society, includes:

- Bachelor's programs in two academic departments: (1) Family and Child Sciences (FCS); (2) Nutrition, Food, and Exercise Sciences (NFES),
- Master's and doctoral programs in two academic departments: (1) Family and Child Sciences (FCS); (2) Nutrition, Food, and Exercise Sciences (NFES).

The baccalaureate degree programs are sufficiently broad to provide graduates with choices upon entering the job market. The reputation of the programs through the years means that graduates are regularly sought for professional positions in corporations, human services, public schools, hospitals, and other health agencies, among others.

Although the programs within the College are diverse, students graduate with an integrative approach in addressing societal concerns; critical thinking skills regarding issues affecting individuals, families, and communities; and fundamental competencies necessary to carry out professional roles. In addition, select programs require faculty supervised practica and internships, which provide students with the experience of applying theoretical and research knowledge.

The various student organizations in the College provide opportunities to extend interaction with faculty and professional leaders through a variety of activities, including field trips, service projects, and seminars. Many students increase their leadership and communication skills through involvement in these organizations.

The College has a Didactic Program in Dietetics (DPD) and a Dietetic Internship (DI) accredited by the Commission on Accreditation for Dietetic Education (CADE), an athletic training program accredited by the Commission on Accreditation of Athletic Training Education (CAATE), a doctoral program in marriage and family therapy accredited by the Commission on Accreditation for Marriage and Family Therapy Education (COAMFTE), and a Certification in Family Life Education approved by the National Council on Family Relations (NCFR).

The College has an Eminent Scholar in Family and Child Sciences who directs the Family Institute. The department of Family and Child Sciences also operates the Center for Couple and Family Therapy and the Center for Better Health and Life in Underserved Populations. Other centers and institutes within the College include the Center for Advancing Exercise and Nutrition Research on Aging and the Institute of Sports Sciences and Medicine.

Facilities

The College has several new state-of-the-art instructional laboratories in the newly renovated and expanded William Johnston Building. Included in this space are laboratories that enhance and enrich the student's education in nutrition informatics, experimental foods, food science, food sensory analysis, exercise testing and prescription, body composition assessment, blood chemistry analysis, and athletic training. Additionally, the Family and Child Sciences Department has several new teaching and research laboratories.

Opportunities

Undergraduate students may participate in Honors in the Major (see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*) and may pursue a double major consisting of a combination of two degree programs. Practica are required in family and child sciences and athletic training. Students majoring in family and child sciences may opt to have an internship if required academic criteria are met. Students who complete the DPD Program are eligible to apply for post-baccalaureate accredited dietetic internships in selected hospitals and community settings. The College of Human Sciences also offers a Living-Learning Center at Reynolds Hall with an emphasis on pre-health professions.

Scholarships/Awards

The College awards monetary scholarships annually. In addition, monetary scholarships are awarded annually by each department. Some of the awards are based on academic performance, some on need, and some on a combination of both.

Undergraduate Degree Programs in Human Sciences

Department of Family and Child Sciences

Family and Child Sciences

Department of Nutrition, Food, and Exercise Sciences

Food and Nutrition with majors in:

- Dietetics
- Food and Nutrition Science
- Athletic Training
- Exercise Physiology

Core Requirements for all Baccalaureate Degrees in Human Sciences

To receive a baccalaureate degree from the College of Human Sciences, students must complete FAD 2230 and a minimum of three semester hours outside their own major in one of the two departments in the College of Human Sciences.

Bachelor of Science and Bachelor of Arts Degrees

Candidates for baccalaureate degrees must comply with the general regulations governing baccalaureate degrees. Students in the College of Human Sciences may not receive more than nine semester hours of credit toward the degree from courses in office skills or in applied music and music activities. Also, students may receive up to two semester hours in physical education activities, which can be counted toward the degree. Candidates for the Bachelor of Arts degree must meet the foreign language requirement and other special requirements of the University.

Admission Requirements for College of Human Sciences

To transfer from undergraduate studies into one of the departments in the College of Human Sciences, the student must have a GPA of at least a 2.0. In addition, students who are not subject to mapping must satisfy the following departmental prerequisites:

- For the **Department of Family and Child Sciences**, at least a "B–" in CHD 2220, CHD 3243, FAD 2230, FAD 3343, and STA 2XXX such that students are only allowed two attempts in two of the five courses to achieve the required final grade of a "B–".
- For the **Department of Nutrition, Food, and Exercise Sciences**, at least a "B–" in HUN 1201 and at least a "C+" in PET 3322

Academic Performance and Retention

The College of Human Sciences reserves the right to discontinue enrollment of any student in the major at any time if satisfactory academic progress is not being made. In addition to satisfying academic mapping milestones or the above departmental prerequisites for students who are not subject to academic mapping, the following are the specific departmental academic performance and retention policies:

- For the **Department of Family and Child Sciences**, students majoring in family and child sciences must obtain at least a "B–" in the practicum course FAD 4805. The minimum grade required in other courses beyond the prerequisite courses and the practicum experience is "C–".
- For the **Department of Nutrition, Food, and Exercise Sciences**, students majoring in dietetics, food and nutrition science, athletic training, or exercise physiology must achieve a "C–" or better in all other required courses unless specified for certain courses.

JIM MORAN COLLEGE OF ENTREPRENEURSHIP
UNDERGRADUATE

Website: *http://jimmorancollege.fsu.edu*
Dean: Susan S. Fiorito; **Professors:** Fiorito, Kim, Schofield; **Associate Professor:** Clayton; **Assistant Professors:** Manchiraju, McQuerry; **Associate Lecturers:** Frazier, Garner, Langston, Parker, Steed; **Assistant Lecturers:** Baber, Breed, Garner, Griffin, Hackett, Hand, Lewis, McHaffie, McNees, Tatum, Whalen; **Instructional Specialists:** McLaughlin, Plant, Soto; **Jim Moran Professor:** Fiorito

Mission

It is the mission of the Jim Moran College of Entrepreneurship to inspire innovation, instill compassion and ignite an entrepreneurial mindset in the next generation of leaders.

General Information

The Jim Moran College of Entrepreneurship, through its faculty, curricula, and programs, is committed to educating and developing its students for careers as future business executives and leaders.

As a result of its capable and dedicated faculty, the Jim Moran College of Entrepreneurship has been able to attract highly qualified students. These students have strong analytical and communicative aptitudes and have a spirit of enterprise and creativity. The interaction of these students with highly qualified faculty, coupled with well-designed program options, creates a stimulating learning environment.

Programs Offered

The Jim Moran College of Entrepreneurship offers curricula leading to the following degrees: Bachelor of Science (BS) and Bachelor of Arts (BA). Students pursuing a bachelor's degree choose from the following degree programs:

1. Bachelor's in entrepreneurship
2. Bachelor's in retail entrepreneurship

Minor Programs

The **Minor in Commercial Entrepreneurship** is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about how to initiate and manage new ventures, sources of funding, and business planning. The curriculum will provide students with the tools and confidence to consider starting and building their own businesses.

The **Minor in Social Entrepreneurship** is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about how to initiate and manage new social ventures, sources of funding, and social business planning. The curriculum will provide students with the tools and confidence to consider starting and building their own social enterprises.

The **Minor in Hospitality Entrepreneurship** is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about how to initiate and manage new ventures in the hospitality industry, sources of funding, and business planning. The curriculum will provide students with the tools and confidence to consider starting and building their own hospitality-focused business.

The **Minor in STEM Entrepreneurship** is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about the innovation and commercialization in the world of science, technology, engineering, and mathematics (STEM). The curriculum will provide students with the tools and confidence to consider starting and building their own venture with STEM-enabled products and services.

The **Minor in Computational Science Entrepreneurship** is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about the innovation and commercialization in the world of Computational Science. The curriculum will provide students with the tools and confidence to consider starting and building their own venture using computational thinking.

The **Minor in Retail Operations** is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about different facets of the inner workings of the retail industry. The curriculum will provide students with the tools and confidence to excel in any retail environment.

The Minor in Textiles is a twelve-hour course of study for students in any major. Students completing the program are knowledgeable about the basic construction of textiles from fibers and yarns to fabrics and finishes, including their performance for specific end-use applications in the apparel, interior, and technical textile industry.

Facilities

The Jim Moran College of Entrepreneurship is currently housed in two separate locations. The Jim Moran Building, which the school shares with the Jim Moran Institute, is located at 111 S. Monroe and is ideally located near the center of downtown Tallahassee. It contains a modern classroom, faculty and staff offices, and numerous support facilities such as a student incubator. The location of this building is ideal for connecting entrepreneurship students with the business community in which we live. The Jim Moran College of Entrepreneurship also has an on-campus location in the Shaw Building. This location contains faculty and staff offices, a student collaboration room, a conference room, a body scanning lab, a fabric printing lab, and one classroom. Textile labs and the Historic Costume Collection are temporarily housed in the Sandels Building. The Office Depot Lab, Computer Aided Design Lab, Advanced Textiles Testing Lab, and the Macy's Visual Merchandising Lab are housed in the William Johnston Building.

Faculty

The Jim Moran College of Entrepreneurship have exceptional faculty who never fail to be nominated for numerous University Teaching Awards. They excel in providing our students with hands-on, experiential learning and teach from many years of industry and research experience.

Scholarships

The Jim Moran College of Entrepreneurship currently offers thirty-nine scholarships. The amount and selection criteria of each award vary according to the program the award supports and the funding source. In addition to scholarships, the Jim Moran College of Entrepreneurship and the University provide numerous opportunities for part-time work as student assistants.

Requirements

All of the undergraduate programs in the Jim Moran College of Entrepreneurship are designated as limited access programs. To pursue any major in the Jim Moran College of Entrepreneurship, students must meet the admission requirements for the limited access program they wish to pursue.

Students should complete the prerequisite courses required for admission during their first three to four semesters of college work. Students attending Florida state and community colleges should complete the prerequisite courses required for admission while fulfilling general education requirements leading to the Associate in Arts (AA) degree.

Admission Requirements

Admission to the Jim Moran College of Entrepreneurship's majors are based on availability of faculty and space in the departments, and the students' ability to complete the necessary admission requirements. The Jim Moran College of Entrepreneurship only accepts and admits students in the Fall semester. Admission criteria requires each student to complete the following requirements:

1. Must have completed at least fifty-two acceptable semester hours;
2. Must have compiled the required GPA (based on all attempted coursework at the college level) that is in effect for the term in which application is made. The required GPA may change each year; information regarding the current required GPA is available at *http://jimmorancollege.fsu.edu*; and
3. Must have completed the following courses with a grade of "C-" or better in each course (or an equivalent course): ECO 2013, ECO 2023, MAC 1105, STA 2023, and any leadership course.
4. Must have submitted an application by the deadline indicated at *http://jimmorancollege.fsu.edu*.

Academic Policies

Students are required to meet graduation requirements specified in the University *General Bulletin* in effect at the time they are admitted to one of the limited access programs in the Jim Moran College of Entrepreneurship, or

subsequent *General Bulletins* including the *General Bulletin* in effect at the time they graduate, provided they graduate within a period of six years from the date of first entry.

Changes to this *General Bulletin* that have been formally approved prior to Fall 2020, but not in sufficient time to meet publication deadlines, will still be effective Fall 2020. Students can receive information on these changes in the Academic Program Manager's office in the Jim Moran College of Entrepreneurship.

All students must complete an official pre-graduation check in the Mapping Coordinator's office of the Jim Moran College of Entrepreneurship during the semester they will earn one hundred semester hours or the semester prior to the semester in which they plan to graduate.

All students must apply for graduation through the myFSU portal during the first three weeks of the semester in which they plan to graduate.

In the Jim Moran College of Entrepreneurship, a minimum of thirty semester hours of the major area requirements must be completed at Florida State University. Transfer of upper-level business courses must be approved by the Dean of the Jim Moran College of Entrepreneurship. Students are not allowed duplicate credit hours for courses repeated in which they have made a "D" or better.

The only courses offered by the entrepreneurship departments that may be taken on a satisfactory/unsatisfactory (S/U) basis are those courses restricted to S/U grades only.

No student who has accumulated two or more grades below "C–" (D+, D, D–, F) in entrepreneurship major courses taken for credit at Florida State University will be permitted to continue toward a degree with a major in commercial entrepreneurship or retail entrepreneurship.

COLLEGE OF LAW
UNDERGRADUATE

Dean: Erin O'Hara O'Connor; **Associate Deans:** Shawn Bayern, Nancy L. Benavides, Courtney Cahill, Jeffrey Kahn, David E. Landau, Manuel Utset; **Assistant Deans:** Debra Henley, Jennifer Kessinger, Catherine Miller, Maribel Roig, Glenda L. Thornton; **Director for Development:** Hovik Arakelian; **Director of the Research Center:** Elizabeth Farrell Clifford

U.S. News & World Report (2019) ranks the College of Law forty-eighth best law school in the nation. The College encourages close working relationships between students and faculty—relationships that are characteristic of the best liberal arts colleges. Expert faculty members are accessible to students inside as well as outside the traditional classroom setting.

Prelegal Education

The College's liberal arts orientation helps foster a strong sense of community in its students. This sentiment translates into student pride in the College of Law as an institution and a mutually held pride in one another. The liberal arts orientation also places great value on the insights of other disciplines that can be brought to bear upon the study of law. It is important to the faculty to integrate insights from such diverse disciplines as history, philosophy, psychology, sociology, economics, and finance.

Florida State offers law students a wealth of law-related employment opportunities. Located in Tallahassee, a city with more than 500 law firms and numerous government agencies, the College of Law is just steps away from the state capitol, the Florida Supreme Court, and the United States District Court for the Northern District of Florida.

The College of Law receives eight applications for every seat in the entering class. The College values students from a wide variety of backgrounds. Currently, the talented and diverse student body represents 33 U.S. states, 22 countries, and 266 colleges and universities.

The College of Law offers unique programs to undergraduates who want to continue on to law school. Under a 3+3 Accelerated Bachelor's/JD Program, students attending one of our six partner institutions who meet certain admission requirements can complete a bachelor's degree and a law degree in six years rather than the traditional seven, saving a year of time and cost. Undergraduate students who gain admission into the JD program through the 3+3 program will follow the usual prescribed course of study for full-time, first-year law students. Upon successful completion of the first year of law school, the thirty credits earned will be counted toward the undergraduate degree, sufficient to complete university requirements for the bachelor's degree. The Juris Doctor degree will be awarded upon successful completion of the required minimum eighty-eight total course credits in the law school (including the thirty hours earned as part of the 3+3 program) and all other JD graduation requirements. The College of Law has similar 3+3 programs with other institutions.

The **Donald J. Weidner Summer for Undergraduates Program** is the largest of its kind and has become a national model for other law schools. Sixty undergraduate college students are chosen to participate in this month-long program that exposes students to the law school experience. During the program, undergraduates attend daily classes taught by law school professors and writing instructors. Lectures familiarize students with the functions of the American legal system and the process by which conflicts are resolved. Writing workshops help students develop their writing and communication skills. In addition to classes, the program provides guest lecturers from the legal community and includes observation of courtroom proceedings and visits to local law firms. The College of Law provides room and board, course materials, and a $500 stipend to all participants. Students are responsible for their travel to and from Tallahassee. For more information on this program, please contact the Office of Student Advancement at *(850) 644-7338* or *summerprogram@law.fsu.edu*.

The College of Law also offers an honors program to FSU undergraduates. Each year, a number of honors program undergraduate students are invited to apply to the FSU Honors Legal Scholars Program. This competitive program provides FSU honors students the opportunity to become members of the law school community as undergraduate students. As a member of the **Honors Legal Scholars Program**, students have a unique opportunity to meet and interact with FSU law faculty and administrators, observe law classes, attend law school events and lectures, and gain valuable information and insight into law school and the legal profession. Upon completion of their bachelor's degrees, these scholars will receive automatic admission to the FSU College of Law provided that they complete and submit an FSU law school application; have an LSAT score of 161 or higher, or a Verbal GRE score of 160 or higher, and an undergraduate GPA of at least 3.75; and have a record that reflects the fitness of character to study law. For more information on the honors program, please contact the Admissions Office at *(850) 644-3787* or at *admissions@law.fsu.edu*.

Students from all majors have completed programs in law school. Undergraduate students considering law school are encouraged to visit the College of Law. Tours of the College and class visitations may be arranged through the Admissions Office. For more information, please call *(850) 644-3787* or e-mail *admissions@law.fsu.edu*.

Curriculum

The College of Law offers a rich and diverse three-year curriculum for the Juris Doctor (JD) degree. It begins with traditional courses and expands to include the latest in theoretical and interdisciplinary analyses. The first-year curriculum is rigorous, traditional, and prescribed. It provides a foundation in history, doctrine, process, and analysis. The second- and third-year curriculum is deliberately structured to provide students with the opportunity to obtain a broad, interdisciplinary exposure to various areas of law.

The College of Law offers a Master of Laws (LLM) in American Law for Foreign Lawyers, which provides law-trained foreign graduate students with the opportunity to develop an understanding of the American legal system and the role of law in the United States. The LLM in American Law degree requires students to complete twenty-four credit hours, within three years (an American LLM student may not take more than thirty-five law credit hours).

The College of Law also offers a Master of Laws (LLM) in Business Law, which gives Juris Doctor (JD) holders and law-trained foreign graduate students training in advanced business law and finance in areas of growing demand, such as regulatory compliance, in-house counsel and financial regulation. The LLM in Business Law degree requires students to complete twenty-four credit hours, within three years (a Business LLM student may not take more than thirty-five law credit hours).

Building on its highly ranked environmental law program, Florida State Law offers a Master of Laws (LLM) in Environmental Law and Policy, which gives Juris Doctor (JD) holders the opportunity to concentrate in or enhance their knowledge of environmental law, land use law, natural resources law, and energy law. The LLM in Environmental Law degree requires students to complete twenty-four credit hours, within three years (an Environmental LLM student may not take more than thirty-five law credit hours).

The College of Law offers a Juris Master (JM), a one-year master's program in law that is intended for those who possess a bachelor's degree and who want to advance their careers with a year of legal studies and training. The program is flexible with few required courses - students can tailor their curriculum for their specific professional advancement goals. The Juris Master degree requires students to complete thirty credit hours, within three years (a JM student may not take more than forty-five law credit hours). The Juris Master program can be completed on-campus or online. The latter offers students three concentrations: Financial Regulation and Compliance, Health Care Regulation, and Legal Risk Management and HR Compliance.

The College of Law has five co-curricular academic organizations, including three student-edited journals and trial and appellate advocacy teams. The journals include the *Florida State University Law Review*, the *Journal of Land Use & Environmental Law,* and the *Journal of Transnational Law & Policy*. The College of Law's advocacy teams are competitive regionally and nationally.

Requirements for Admission

For August admission, students must apply between September 1 and July 31, or by the deadline published by the College of Law. The College of Law enrolls only one JD class in the Fall of each year and does not offer a part-time or evening program. Submit and complete law school applications as early as possible. Factors considered by the admissions committee include numerical credentials (LSAT and GPA), exceptional personal talents, interesting or demanding work or service experience, leadership potential, rigorousness of the undergraduate course of study, maturity, a history of overcoming economic or other social hardships, ability to communicate effectively, and other factors. Decisions on applicant files are made as early as October.

Admission to the College of Law is a competitive process. For more information about the admissions process, please call *(850) 644-3787* or visit the Web site *https://law.fsu.edu/admissions-financial-aid/admissions*. All registrants are required to have a bachelor's degree from a regionally accredited college or university prior to commencing law study. Every prospective law

student must take the Law School Admissions Test (LSAT) given by the Law School Admissions Services or the GRE given by the Educational Testing Services (ETS). For more information about the LSAT, please visit *http://www.lsac.org*. Registration with the Credential Assembly Service is also required. For more information about the GRE, please visit *http://www.ets.org*.

Special Programs

The College of Law has especially strong programs in three areas: environmental law, international law, and business law, with certificate programs in all three areas. The law school's program in environmental law is recognized as one of the best in the country. For more information on these programs, please visit *http://www.law.fsu.edu/academics/academic-programs*.

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Additionally, the College of Law has one of the most extensive externship programs in the United States. The clinical externship program places students in more than one hundred offices throughout Florida and elsewhere.

Clinics at the law school's **Public Interest Law Center** provides "live-client" training for second- and third-year students. Students are certified by the Florida Supreme Court to practice law as interns and, under the supervision of licensed attorneys, are responsible for all facets of cases to which they are assigned, specializing in everything from foster care and health care access cases to child support and juvenile delinquency. In addition, students in the Business Law Clinic learn transactional skills and earn academic credit by helping advise business and social entrepreneurs within the Florida State University community.

The College of Law offers nine joint graduate pathways in cooperation with other colleges, schools, and departments at Florida State. The joint degrees bring together the study of law and oceanography and aquatic environmental science, business, information law, information technology, international affairs, public administration, social work, sport management, as well as urban and regional planning.

The College of Law also sponsors a summer program at Oxford University in England. As the oldest ongoing program in Oxford sponsored by a U.S. law school, it provides students with a unique opportunity to study comparative law and the history of the common law and its institutions in their original setting. Questions concerning the application and program may be directed to Shirley Oglesby, Assistant to the Director, *(850) 645-0926*; or visit *http://www.law.fsu.edu/academics/jd-program/study-abroad/oxford*.

COLLEGE OF MEDICINE
UNDERGRADUATE

Dean: John P. Fogarty; **Senior Associate Dean for Academic Affairs:** Alma Littles; **Associate Dean for Student Affairs and Admissions:** Robert Campbell; **Assistant Dean for Student Affairs:** Leekemase Gadson; **Assistant Dean for Admissions:** Eric Laywell ; **Senior Associate Dean for Research and Graduate Programs:** Jeffrey Joyce; **Associate Dean for IMS**: Anthony Speights; **School of Physician Assistance Practice Associate Dean:** James Zedaker; **Senior Associate Dean for the Regional Medical School Campuses:** Paul McLeod (Pensacola Campus); **Assistant Deans for the Regional Medical School Campuses:** Nicole Bentze (Sarasota Campus), Luckey Dunn (Daytona Beach Campus), Juliette Lomax-Homier (Fort Pierce Campus), Joan Meek (Orlando Campus), Sandeep Rahangdale (Tallahassee Campus); **Director of Rural Health:** Kerwyn Flowers; **Director of the Clinical Learning Center:** Debra Danforth; **Director of the Medical Library:** Martin Wood; **Executive Director of Outreach and Advising:** Thesla Berne-Anderson; **Associate Dean for Faculty Development:** Gregory Turner; **Assistant Dean for Information Management:** H. Scott Dunn

The Florida State University College of Medicine, in partnership with local communities, provides a four-year program of study leading to the Doctor of Medicine (MD) degree. The College is fully accredited by the Liaison Committee on Medical Education of the Association of American Medical Colleges and the American Medical Association.

The mission of the College of Medicine is to educate and develop exemplary physicians who practice patient-centered health care, who discover and advance knowledge, and who are responsive to community needs, especially through service to elder, rural, and other medically underserved populations. The curriculum is comprehensive, preparing students to enter residency training in any specialty; however, the program of study emphasizes the priority areas identified in the College's mission.

Premedical Education

The practice of medicine requires a sound science background, and most medical schools have the same standard list of premedical requirements. Medical schools recruit, and the medical profession needs, individuals from diverse educational backgrounds who bring to the profession a variety of talents and interests. Medical schools review personal qualities, academic qualifications, communication skills, and motivation when considering candidates for selection.

Students considering medicine as a profession should consider carefully their undergraduate major area of study. Students should select a major area of study that is of interest and that will provide a foundation of knowledge necessary for the pursuit of several career alternatives. Students who select a major area of study solely, or primarily, because of the perception that it will enhance the chance of acceptance to medical school are not making a decision in their best interest. A science major is not a prerequisite for medical school, and students should not major in science simply because they believe this will increase their chances for acceptance. The most common majors for matriculating students include biology, biochemistry, psychology, exercise science, business, and various other nonscience majors.

The AAMC describes the medical profession as demanding in terms of the time, energy, and responsibility for other people's lives, and states that the commitment to continuing service and education is essential. The practice of medicine requires physical, emotional, and intellectual stamina; the desire to work with and for people; and, particularly, the ability to use critical thinking to solve problems. The undergraduate years should be a time for students to discover if they possess these characteristics.

Undergraduate students who are thinking about medical school are encouraged to visit or contact the *College of Medicine Pre-health Professions Advising Office, 1115 West Call Street, (850) 644-7678*; or e-mail the school at *medinformation@med.fsu.edu*.

Honors Medical Scholars Program

The FSU College of Medicine, in conjunction with the FSU Honors Office, has established a program that is open annually to qualified students. The program allows eligible FSU honors students to pursue a Bachelor of Science degree of their choice while also participating in the Honors Medical Scholars Program, which includes a seminar course, mentorship program, and required pre-medical courses and experiences. Students participating in the program may be eligible for early admission to the FSU College of Medicine upon completion of pre-med requirements. Applications and program details are available from the FSU Honors Office at *(850) 644-1841*.

Degree Programs

Doctor of Medicine (MD)

The FSU College of Medicine trains students in allopathic medicine, which includes the diagnosis, management, and treatment of disease. The College confers upon its graduates the degree of Doctor of Medicine. Upon completion of the four-year Doctor of Medicine educational program, these physicians pursue graduate medical education (internship, residency, and sometimes fellowships), which is necessary for eventual licensure. Training in residency programs may take from three to nine additional years after completion of medical school.

To be considered for graduation from the FSU College of Medicine, a student must be judged by the Student Evaluation and Promotion Committee to be in good standing, must successfully complete and pass all required courses and clerkships, must successfully complete the end-of-third-year OSCE (Observed Structural Clinic Examination), must complete all required surveys and evaluations, and must have a passing score on the United Stated Medical Licensing Examination (USMLE) Steps 1, 2CK, and 2CS. Further information may be found in the *Graduate Bulletin* and in the *College of Medicine Student Handbook* at *http://www.med.fsu.edu/*.

Doctor of Philosophy (PhD) in Biomedical Sciences

The Doctor of Philosophy in Biomedical Sciences Program is designed to prepare the next generation of health scientists for medical research and teaching in an era of increasing coordination and integration of traditional disciplines. Undergraduate majors in biology, biochemistry, chemistry, microbiology, or other life sciences are suitable for graduate studies in biomedical sciences. Research rotations during the first year allow students to make an informed choice of the research area and major professor with whom they will conduct their Doctor of Philosophy work. A core curriculum of the fundamentals, a wide array of electives from other departments, and intellectual interaction with faculty and post-doctoral fellows all encourage graduate students to mature into independent scientists.

To be considered for graduation from the FSU College of Medicine with the Doctor of Philosophy in Biomedical Sciences, the student must successfully complete all course requirements within five calendar years from the time the student gains admittance to candidacy by passing the preliminary exam. Other requirements for graduation include attending the Health Sciences Seminar Series; successfully completing the preliminary doctoral examination; submitting a doctoral research proposal approved by the major professor and the supervisory committee after admission to doctoral candidacy; registering for a minimum of twenty-four semester hours of dissertation credit; and submitting, publicly presenting, and successfully defending a dissertation.

Additional details are available at *https://med.fsu.edu/phd/home.* For additional information or inquires please contact us by calling *(850) 645-6420*.

Master of Science in Physician Assistant Practice (PA)

The Florida State University PA is a 27-month, 7-semester, 111 credit hour program designed to train students to practice medicine as physician assistants as part of the Physician-PA Team. Upon completion, our graduates will receive the Master of Science in Physician Assistant Practice degree. The PA Program at FSU is extremely challenging with a strong emphasis in the biomedical sciences, simulation, and procedural skills. Although challenging, students will find a welcoming environment and an unrivaled network of support provided by an inter-professional team that is committed to students' academic and professional success. Upon successful completion, students will be eligible to sit for the National Commission on Certification of Physician Assistants (NCCPA) exam.

Admission Requirements

Admission to the Doctor of Medicine (MD) Program

All inquiries regarding admission should be sent to *College of Medicine, Florida State University, Tallahassee, FL 32306-4300*; or e-mail at *medadmissions@med.fsu.edu*.

To apply to the College of Medicine at Florida State University (FSUCOM), an applicant should apply through the American Medical College Application Service (AMCAS) and should have taken the Medical College Admission Test (MCAT). To receive the FSUCOM formal secondary application, an appli-

cant should be a U.S. citizen, should meet academic standards predictive of success in medical school (academic grade point average and MCAT score), and should have completed the required prerequisite courses. A listing of prerequisite courses may be obtained by contacting the Pre-health Professions Advising Office in the College of Medicine or on the College of Medicine Web site at *http://www.med.fsu.edu*. An applicant's MCAT score should be dated no more than three years prior to the beginning of the year of the application cycle. A bachelor's degree is required by the time of matriculation to medical school. If an applicant currently is enrolled in a degree program, the program must be completed and transcripts provided to the College of Medicine Admissions Office prior to the beginning of classes in June.

Admission to the Doctor of Philosophy (PhD) in Biomedical Sciences Program

To apply for the PhD in Biomedical Sciences Program, students should contact the College of Medicine's Office of Research and Graduate Programs at *(850) 645-6420* or check the program's Web site (*http://med.fsu.edu/phd/home*). Admissions requirements for the Doctor of Philosophy in Biomedical Sciences Program are as follows. A prospective candidate must:

1. Have or be a candidate for a baccalaureate degree from an accredited college or university and be in good standing at the last institution attended
2. Have a minimum GPA of 3.0 (on a 4.0 scale)
3. Have a minimum combined verbal and quantitative score of 1000 or above on the Graduate Records Examination (GRE)

A GRE Subject test is strongly recommended and may include biochemistry and cell biology, general biology, chemistry, or physics. Applicants whose native language is not English and who have not received a degree from an English language institution are required to take the Test of English as a Foreign Language (TOEFL), receiving a minimum score of 80 for the Internet based (IB) test or 550 for the paper test. Special admission consideration may be requested based on disability.

Applicants may send the required material to the University Admission Office at *https://admissions.fsu.edu/gradapp/*.

Master of Science in Physician Assistant Practice (PA) Program

The Florida State University PA program participates in the CASPA (Centralized Application System for Physician Assistants). To apply, all applicants must submit a completed *CASPA* application in addition to completing the FSU supplemental application. The CASPA application will be available May 1. The deadline for submission of the CASPA, including supplemental application questions, and payment of supplemental application fee is October 1. Applications will not be considered without the following: 1) Verified CASPA application with supplemental questions, 2) Official GRE scores, and 3) Payment of supplemental application fee.

Applicants must have a bachelor's degree from a regionally accredited college or university.

GPA: Minimum cumulative GPA 3.0 and a minimum prerequisite math and science GPA of 3.0. A candidate that has a completed graduate degree with at least 30 credit hours may submit a written request to the PA admissions coordinator to replace the undergraduate cumulative GPA with the higher graduate GPA if the cumulative graduate GPA is higher.

GRE: Applicants must submit GRE scores taken within the last 3 years. We do not accept the MCAT or other substitutes. There is no minimum score and students will be evaluated on a competitive basis. CASPA's Code is 2122.

Transcripts are not required until an official offer of admission has been made. At that time applicants must submit an OFFICIAL copy of all transcripts from each University/College attended directly to the FSU College of Medicine Admissions Office. International transfer credit is awarded for coursework completed at an accredited (recognized) institution of higher learning. No credit is awarded for technical, vocational, or below-college-level coursework, or courses completed with grades below "C." "C–" will not be accepted. An official course-by-course evaluation is required for all academic records from non-U.S. institutions. We recommend the evaluation be done by a member of the National Association of Credential Evaluation Services (*http://www.naces.org/*).

English Language Proficiency: Official English Language Proficiency results are required of all international applicants whose native language is not English. The following are the minimum scores required for admission to the Physician Assistant Program: Internet based TOEFL (IBTOEFL): 88, Paper based TOEFL (TOEFL): 570, and International English Language Testing System (IELTS): 7.0. These scores are considered official only when they are sent directly to the Office of Admissions from the testing agency and are not valid after two years.

A minimum of 500 hours of direct patient care experience is required with additional experience recommended. Direct care is defined as "hands on" patient contact that involves interaction with patients. Examples of experience that qualify: nursing assistant, EMT, paramedic, nurse (LPN, RN, BSN, NP, CRNA), patient care attendant, athletic trainer, physical therapist, respiratory therapist, x-ray technician, medical assistant, military medical technician/corpsman, international medical graduates, chiropractor, licensed massage therapist, optometrist, and pharmacist. Additional examples can be found in the FAQ section of the PA program website. Examples of experiences that do not qualify for the purposes of admission to the FSU PA Program are: hours obtained by shadowing, experience obtained as student in a healthcare profession, pharmaceutical representative, lifeguard, police officer, firefighter, medical scribe, unit clerk, or medical secretary. Applicants must document experiences on the Direct Patient Care Experience Form. All hours must be completed before May 1 of the matriculation year. Experiences can be full-time, part-time, or volunteer. Applicants who do not believe they can achieve the minimum 500 hours prior to the time of application can take PA 2050 "Introduction to the PA Profession" at the FSU campus. This course is an exploration of the PA profession. It satisfies the 500-hour requirement but does not eliminate the need for some patient care experience. For more information, please see the *FAQ* section of the PA program website.

Applicants must submit at least 3 (three) letters of recommendation and no more than 5 (five). It is suggested that at least one reference should be from a healthcare provider and one should be from a science faculty member who taught the applicant. These letters should be from people who have worked with and know the applicant. References from family members or friends will not be accepted.

Citizenship: All applicants must be US citizens or Permanent Resident Aliens in possession of a "green card."

Interdisciplinary Medical Sciences (BS)

The Interdisciplinary Medical Sciences (IMS) Bachelor of Science degree program is designed to provide a broad background to develop scientific and psychosocial knowledge and an understanding of the healthcare team and the healthcare system. So that students may pursue their specialized and professional interests, three (3) interdisciplinary majors are offered: Clinical Professions; Community Patient Care; and Health Management, Policy and Information. The IMS Degree Program's rigorous science core curriculum, individualized advising, experiential service learning, and developmental seminar and capstone course sequence enable students to reach their potential academically and personally, to determine a career path best suited for them, and to develop the skills, attitudes, and acumen to attain their career goals.

The program includes three to four 1-credit hour experiential seminar courses that engage students with the challenges of healthcare in community, clinical, political, and research venues. The medical sciences seminar sequence leads to a senior capstone course which requires the submission of a scholarly report, an analytical essay on a healthcare issue, and a poster and oral presentation at a graduation colloquium. The capstone course meets the Scholarship in Practice and Upper-Division Writing liberal studies requirements.

Resources are available to help students locate opportunities in clinics, community service organizations, hospitals, pharmacies, and physician's offices for students to engage in the various ways healthcare in which is accessed. Students are required to obtain a minimum of 64 hours of experiential learning hours each academic year for a total of 256 experiential learning hours before graduation. These hours must be approved by the Community Coordinator in advance.

Although housed in the College of Medicine, the curriculum is delivered by seven (7) colleges at FSU. In addition to the College of Medicine, the College of Arts and Sciences, the College of Human Sciences, the College of Communication and Information, the College of Nursing, the College of Social Sciences and Public Policy, and the College of Social Work are IMS degree program partners.

Curriculum guides stating specific degree requirements for the undergraduate majors are available through the Office of Undergraduate Programs and through our Web site: *http://med.fsu.edu/imsDegree/home*.

The Pre-Health Professions Advising Office

The Florida State University College of Medicine provides academic advising and counseling to students interested in pursuing careers in the health professions. Currently, over 1,300 students are enrolled in this advising program. Many of the students who seek advising in the advising office are pre-medical students. However, the program is open to all pre-health students including pre-anesthesiology assistant, pre-chiropractic, pre-dentistry, pre-occupational therapy, pre-optometry, pre-pharmacy, pre-physical therapy, pre-physician assistant, pre-podiatry pre-veterinary, and pre-genetic counseling. Full-time

pre-health professions advisors meet regularly with these students throughout their college years, assisting with career goals, course scheduling, long-term academic planning, and professional school admission procedures.

In addition to one-on-one advising, the advising office also sponsors programs of special interest to pre-health students. Programs include panel discussions with admissions representatives from various medical and professional schools and workshops on succeeding in the application process and on interviewing strategies. The Pre-Health Professions Advising Office also sponsors a number of student organizations (refer to 'Organizations and Societies' below).

Florida State University has a competitive acceptance rate to medical and professional schools nationwide, and many of our graduates have been recognized for their outstanding contributions and achievements in the field of medicine.

To register with the College of Medicine Pre-Health Professions Advising Office, call *(850) 644-7678* or visit *Suite 2140* at the College of Medicine to set up an appointment with a health professions advisor.

Organizations and societies sponsored by the Pre-Health Professions Advising office are listed below:

Alpha Epsilon Delta is the Pre-Health Professional honor society. The society welcomes members who are planning careers in medicine, podiatry, dentistry, veterinary medicine, optometry, and pharmacy, but with an emphasis on the medical field. To become a national member, students must be in the second semester of their sophomore year and have an overall and a science GPA of at least 3.2. Freshmen and sophomores are encouraged to participate in activities of the society. The Florida-Beta chapter at Florida State University was founded in 1946 and is one of the oldest chapters in the Southeast. The society invites speakers who represent the health professions, plans trips to area professional schools, and participates in community service.

The **American Medical Student Association (AMSA)** provides information, support, and leadership for future physicians in training. This organization stresses a strong commitment to service and is open to all FSU students.

The **American Medical Women's Association (AMWA)** supports women in medicine on the community, national, and international levels by increasing the awareness of health concerns that are exclusive to women.

The mission of **Analyze, Act, and Advocate Health (AAA)** s to Analyze social determinants of health, Act through service, and Advocate for the affected communities with the intention of energizing and encouraging citizens with varying backgrounds to get involved in communal health efforts. AAA Health strives to alleviate the symptoms of health disparities by observing health comprehensively and addressing multifaceted issues that contribute to a community's overall health. Students passionate about service and aspiring to enter the health professions will have the opportunity to approach and dissect social determinants of health through engagement in education and dialogue prior to committing to and serving in partner community organizations.

Connecting Experimental Lab and Life Sciences (CELLS) promotes research for undergraduates and provides a social and professional network for students engaged in biomedical, clinical and social science research. CELLS at FSU will introduce and prepare undergraduate students for an exciting research experience by providing avenues for networking with research faculty. This organization offers workshops, mentoring, lab tours, service events, field trips, research symposiums, interactive discussions with research scientists and advice on internships and biomedical research careers.

The **Multicultural Association of Pre-Medical Students (MAPS)** works to enhance the recruitment of culturally diverse students into health care fields and to assist members in becoming more successful candidates for professional health and medical programs.

The **Physical Therapy and Occupational Therapy Club** provides an opportunity for the pre-physical/occupational therapy students of Florida State University to assist one another in preparation for graduate school. The club provides a means by which pre-physical/occupational therapy students can get to know each other and help each other with planning, GRE preparation, and physical/occupational therapy school applications. We bring in practicing physical and occupational therapists, current physical/occupational therapy school students, and physical/occupational therapy school recruiters in order to help students understand the profession and gain knowledge of the physical/occupational therapy school admissions process.

The **Pre-Dental Society** is an organization established to further educate those students who plan to enter dental school. The organization strives to advance the education of members by providing an information network in directing their pre-dental education. Members may access information about coursework, dental schools, test preparation, and the application process. Guest professionals from the local dental community in Tallahassee are invited to speak at meetings. Membership is available through the Pre-Health Professions Advising Office.

The **Pre-Optometry Club** encourages and educates students who express an interest in pursuing a career in optometry. Students have opportunities to shadow optometrists and to meet representatives from optometry schools. The club seeks to encourage an exploration of the field while providing its members with information to better prepare for optometry school.

The **Pre-Pharmacy Informational Leadership and Learning Society (PILLS)** is a student organization for those interested in pursuing a career in pharmacy.

The **Pre-Physician Assistant Club** is an organization for students interested in a career as a physician assistant. Monthly meetings are held at the College of Medicine. The meetings include guest speakers from the community as well as presentations from physician assistant programs.

The **Pre-Student of Osteopathic Medicine Association (P-SOMA)** is an affiliated chapter of the national Pre-Student Osteopathic Medical Association. We are dedicated to promoting the osteopathic tradition at Florida State University, and in the Tallahassee area, and to creating stronger, more knowledgeable students for entry into osteopathic medical institutions around the country. The chapter invites school admissions representatives, practicing physicians, and medical lecturers to speak at its meetings, and provides scholarships, shadowing and volunteering experiences, tutoring, and opportunities for meaningful leadership to its members.

The **Pre-Veterinary Society** is an organization that provides an environment where students can expand their interests in veterinary medicine. Members build a strong support group to share information about coursework, the application process, and volunteer opportunities in the Tallahassee area. A focus is on assisting the community with animal-related issues. Membership information is available through the Pre-Health Professions Advising Office.

COLLEGE OF MOTION PICTURE ARTS
UNDERGRADUATE

Dean: Reb Braddock

Established in 1989, the College of Motion Picture Arts is one of only seven university-based film conservatories in the country. In the short time the College has been in operation, it has quickly become recognized nationwide as an outstanding motion picture production program. At the undergraduate level, the College offers Bachelor of Fine Arts (BFA) degrees with majors in Production and in Animation and Digital Arts. At the graduate level, the College offers Master of Fine Arts (MFA) degrees to those admitted. The College provides state-of-the-art motion picture equipment and studio facilities for production and post-production operations, and it funds all student workshops and projects, including the graduate and undergraduate thesis productions.

The expertise of the College's faculty reflects the direction and range the school will take in the future. Dean Reb Braddock is an experienced industry professional, who is joined by twenty-five faculty members, all of whom are specialists in the areas of producing, writing, directing, cinematography, visual effects, animation, editing, sound recording, production design, motion picture history, theory, and aesthetics.

Faculty Distinctions

The College of Motion Picture Arts has a strong commitment to hiring experienced working professionals who have both teaching skills and professional goals. The full-time faculty is comprised of working filmmakers with various specializations as writers, directors, production designers, and editors in both the theatrical and non-theatrical film and television industries, many of whom have won national and international awards and honors for their work. Some of the faculty also have strong records as research scholars and fiction writers, including visiting professors in the fields of motion picture law, business distribution, exhibition, and promotion.

Facilities

The College of Motion Picture Arts operates extensive production facilities for its graduate and undergraduate programs in *University Center A* on Florida State University's campus in Tallahassee, and in an off-campus site in Midway, Florida, known as the Torchlight Center.

Considered one of the finest facilities in the world devoted exclusively to film education, it includes: professional sound stages, a green-screen/motion capture stage, a cinematography and set operations teaching stage, grip and electric trucks fully equipped with industry standard G&E equipment, an ADR and Foley recording studio, re-recording stages, QC and dailies screening rooms, digital animation/VFX production labs, color correction suites, a 120-seat screening room, digital animation/VFX production suites, seminar rooms, writer rooms, interactive classrooms, individual post production suites, teaching labs, and student production planning rooms.

The College is equipped for and supports industry-standard acquisition in HD, 2k, 4k, and 8k digital formats, and digital sound recording formats.

Undergraduate Degree Program

The programs of study leading to the Bachelor of Fine Arts degrees are designed to lead students through the complete process of creating short films, while incorporating a well-rounded liberal arts education that includes writing courses. Core courses in the majors include producing, directing, cinematography, screenwriting, sound, editing, production management, animation, visual effects, motion picture history, theory, and aesthetics. Students may be accepted into the programs at the freshman level or transfer into the programs once at least thirty semester hours of the liberal studies requirements have been completed.

The College's world-class facilities aid in meeting the goals of the undergraduate programs—to educate students in the art and craft of motion picture storytelling and to help them become integral members of the academic community of Florida State University. Graduates are trained to be members of the entertainment profession and participants in a creative and professional enterprise. After required coursework, students are encouraged to complete their program of study by enrolling in the program's internship course to apply their learning in a real-world setting in the industry. This capstone experience will position students for greater chances of success in their careers.

Admission to the Undergraduate Program

Admission to the College of Motion Picture Arts is limited access, making admission highly selective and competitive. Applicants must apply to Florida State University's Office of Admissions by their Fall admission deadline and must submit a separate application to the College of Motion Picture Arts by the same Fall admissions deadline used by the Florida State University Office of Admissions. As a part of the College of Motion Picture Arts application, each applicant must submit a résumé, three letters of recommendation, a creative portfolio (which can include film work, photographs, animations, etc.), a writing sample adhering to the given prompt, and a 500–1000 word essay describing his or her motivation for becoming a filmmaker. Any application that does not contain all these items will be considered incomplete and will be denied automatically. All application materials must be submitted online via the application portal for the applicant to be considered for admission the following Fall semester. More information concerning the undergraduate application is available online at *http://film.fsu.edu/admissions*.

Health Insurance

Students seeking degrees in certain majors, including film, assume any exposure to the particular hazards associated with that major. As protection for our students, the College of Motion Picture Arts requires that majors present proof of health and accident insurance (name of insurer and policy number) prior to registration in the Fall semester of each year. Students are expected to maintain this insurance throughout their enrollment in the program and keep the information updated with the Associate's Dean's Office.

COLLEGE OF MUSIC
UNDERGRADUATE

Dean: Patricia J. Flowers; **Associate Deans:** Grady Enlow, William Fredrickson, Michael Thrasher

The College of Music is a vital, integral component of the Florida State University community. It serves as a center of excellence for the cultural development of the community, state, region, and nation, and offers a comprehensive program of instruction for all students who expect to become professional musicians: performers, composers, scholars, educators, administrators, and therapists. For the general University student, it offers a wide spectrum of opportunities for disciplined personal growth and creative achievement. Further, the College maintains the highest quality faculty, students, curriculum, and facilities.

Numerous concerts and recitals are offered by the College of Music throughout the school year. Performing organizations include the Baroque Ensemble, Brass Ensembles, Chamber Choir, Chamber Orchestra, Chamber Winds, Choral Union, Collegians (Men's Glee Club), Concert Bands, Duo Piano, Early Music Ensembles, Jazz Ensembles, Jazz/Pop Vocal Ensembles, Marching Chiefs, Music Theatre Ensemble, New Music Ensemble, Opera Chorus, Opera Orchestra, Percussion Ensembles, String Ensembles, Symphonic Band, University Chorale, University Philharmonia, University Singers, University Symphony, Wind Orchestra, Woodwind Ensembles, Women's Glee Club, and World Music Ensembles. In addition, there are numerous student and faculty chamber music groups. The College of Music sponsors many faculty solo recitals, as well as faculty chamber music recitals. A monthly calendar of College of Music programs and other cultural activities on campus is available on the College of Music Web site at *http://music.fsu.edu/*.

The following honorary societies and professional fraternities are sponsored by the College of Music: the Phi Chapter of Pi Kappa Lambda; the Epsilon Iota Chapter of Phi Mu Alpha Sinfonia; the Beta Alpha Chapter of Sigma Alpha Iota; the Gamma Nu Chapter of Kappa Kappa Psi; the Alpha Omega Chapter of Tau Beta Sigma; the Alpha Chapter of Alpha Mu; the Beta Chi Chapter of Mu Phi Epsilon; the Florida State University Music Theory Society; the Florida State University Society for Musicology; and collegiate chapters of the National Association for Music Education, the American Choral Directors Association, and the American Guild of Organists.

Undergraduate Degrees

The College of Music has been a fully accredited member of the National Association of Schools of Music since 1930, and its degree requirements are in accordance with the latest published regulations of that association. Following are the undergraduate degrees offered by the College of Music:

- Bachelor of Arts in Music (Areas of Emphasis: General Music, Commercial Music, Jazz, Sacred Music)
- Bachelor of Music—Composition
- Bachelor of Music—Music Theory
- Bachelor of Music—Music Therapy
- Bachelor of Music—Performance:
  - Brass
  - Guitar (classical)
  - Harp
  - Jazz
  - Music Theatre
  - Organ
  - Percussion
  - Piano
  - Strings (double bass, cello, viola, violin)
  - Voice
  - Woodwinds
- Bachelor of Music Education
  - Choral
  - General
  - Instrumental

In addition to the Bachelor of Music and Bachelor of Music Education degrees, the Bachelor of Arts degree in music is offered through the College of Music. The Bachelor of Arts degree in music allows students the opportunity to tailor their degree programs to their specifications by combining other areas of interest with general music studies, such as commercial music, sacred music, and jazz.

The College of Music provides a music minor for the divisions of the University that require a minor course of study. Admission to the minor program requires the following:

- approval of the major department;
- approval of the College of Music; and
- an approved placement audition level on an acceptable instrument or voice.

Detailed information can be obtained from the College of Music's undergraduate studies office.

Graduate Degrees

The following are the graduate degrees offered by the College of Music:

- Master of Arts in Arts Administration
- Master of Arts in Music (Areas of Emphasis: Music/Liberal Arts, Piano Technology)
- Master of Music in Composition
- Master of Music in Music Theory
- Master of Music in Music Therapy
- Master of Music in Musicology (historical or ethnomusicology)
- Master of Music in Opera Production (coaching or directing)
- Master of Music in Performance
  - Accompanying
  - Conducting (band, choral, or orchestral)
  - Guitar
  - Harp
  - Jazz
  - Organ
  - Piano
  - Piano Pedagogy
  - Strings
  - Voice
  - Woodwinds, Brass, or Percussion
- Master of Music Education
- Doctor of Music in Composition
- Doctor of Music in Performance
  - Collaborative Piano
  - Guitar
  - Harp
  - Organ
  - Piano
  - Strings
  - Voice
  - Woodwinds, Brass, or Percussion
- Doctor of Philosophy in Music Education
  - Choral Conducting
  - Choral Music Education
  - General Music
  - Instrumental Conducting
  - Instrumental Music Education
  - Music Therapy
  - Piano Pedagogy
  - String Education
  - Teacher Education
- Doctor of Philosophy in Musicology (historical or ethnomusicology)
- Doctor of Philosophy in Music Theory

Consult the *Graduate Bulletin* for information on the graduate programs offered by the College of Music.

Facilities

Music Facilities

The College of Music enjoys excellent teaching, research, and performance facilities. The two College of Music buildings are located on Copeland Street on the east side of the campus. The *Kuersteiner Building*, completed in 1948, is a four-story structure that is connected to the *Wiley L. Housewright Music Building*, which was completed spring 1979. The College of Music also occupies a number of offices in the *Longmire Building*. These buildings house the administrative offices; teaching studios; classrooms; band, orchestra, choral, opera, and ensemble rehearsal halls; music education and music therapy research laboratories; electronic music studios; ethnomusicology studios; early music studios; concert and recital halls; the **Warren D. Allen Music Library**; the **Center for Music Research**; and 130 practice rooms. All music facilities are structurally designed for maximum effectiveness.

Concert Facilities

The **Opperman Music Hall** is a 430-seat recital hall located in the *Kuersteiner Building*. The facility is used for faculty and student recitals, concerts, and lectures. The **Ernst von Dohnanyi Recital Hall**, located in the *Housewright Music Building*, is a 218-seat facility used for recitals and lectures. The **Lindsay Recital Hall**, located in the *Kuersteiner Building*, is a 125-seat facility used for recitals and lectures. The **Longmire Recital Hall** in the *Longmire Building* is a 120-seat facility used for recitals and lectures. The **Owen F. Sellers Music Amphitheatre** is used for outdoor performances in the Fall and Spring. **Ruby Diamond Concert Hall** is a large concert facility used for opera and major concert productions.

Music Library

The **Warren D. Allen Library** is conveniently located in the *Housewright Building*, where it serves the students and faculty of the College of Music as well as many users from other areas of the University. One of the major music libraries of the southeastern United States, the music library provides a pleasant setting conducive to the efficient utilization of the extensive collection of over 200,000 scores, sound recordings, videos, books, periodicals, and microforms. Housed in 18,000 square feet of space with comfortable furnishings and excellent sound equipment, the music library provides students with impressive resources and surroundings for the pursuit of their studies. Three librarians and other library staff are on duty to assist students and faculty in their use of the library.

Opera Shops

Built in 1977 and 1978, the **Opera Scene Shop** provides 6,000 square feet of construction space with some storage area. The building features a drafting office, elevated grid area for constructing wagons and assembling scenic flats or drops, complete hand and table tools, and a wooden "stage" area for painting drops. An opera production is built there each semester, as well as sets for opera scenes and opera majors' projects.

The **Opera Costume Shop** is located in the *Kellogg Building*. Costumes are constructed or alterations are made on rental costumes each semester. In addition, costumes are constructed for various opera workshop scene programs.

Organs

A 1975, thirty-four stop Holtkamp tracker (mechanical action) organ in Opperman Music Hall is used for recitals, concerts, and lessons. Practice organs include tracker and electric action instruments by Holtkamp and Wicks. Two portable continuo organs are available for performances requiring small instruments: a 1976, four stop Holtkamp; and a 2003, three stop Bennett and Giuttari with transposing keyboard. On permanent loan from the College to St. John's Episcopal Church, Tallahassee, a restored English chamber organ built by Hill and Davison between 1837 and 1838 is available in the church's Carter Chapel. Fine organs by Taylor & Boody, C. B. Fisk, and Casavant are available through longstanding arrangements with downtown churches within easy walking distance of the College. Two small organs from Juget-Sinclair Organbuilders, Montreal, were delivered in late 2013: a four stop continuo organ with transposing keyboard for use by the Choral Department and a four-stop practice organ added to the organ practice room suite.

Opportunities

Honors Program

The College of Music offers honors work in several degree programs to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Specialized Studies Programs

In addition to the degree programs, the College of Music offers specialized studies programs that provide additional areas of emphasis. The specialized studies programs offered include:

Arts Administration, Graduate
College Teaching, Graduate
Early Music, Graduate
Honors Specialized Studies in Music, Undergraduate
Jazz Studies, Undergraduate and Graduate
Music Education and Leadership, Graduate
Music Entrepreneurial Studies, Undergraduate
Music of the Americas, Graduate
Music Therapy Equivalency, Graduate
Organ Performance, Graduate
Pedagogy of Music Theory, Graduate
Performance, Undergraduate
Piano Pedagogy, Undergraduate and Graduate
Sacred Music (instrumental or vocal emphasis), Undergraduate
Special Music Education, Undergraduate and Graduate

Additional information regarding the specialized studies programs may be obtained from the College of Music's undergraduate or graduate studies offices.

Special Events

The College of Music provides students an opportunity to participate in many special events and experiences each year. Students interested in receiving additional information should contact the College of Music's publicity office or the College's undergraduate/graduate studies offices. A partial listing includes the following:

The **Festival of New Music**. This biennial festival features recent works by composers from throughout North America.

Housewright Scholar Residencies. The College of Music enjoys the residencies of visiting scholars each year through the Lucilla and Wiley Housewright Eminent Scholar Chair in Music.

Summer Music Camps. Each year the College of Music provides a performance institute for high school and middle school musicians.

Other Special Events. The College of Music regularly hosts various conventions and workshops, presents festivals, and gives special courses.

Work-Study. Students eligible for work-study through the Office of Financial Aid may request employment through the College of Music.

Faculty Citations. The College of Music may award faculty citations to outstanding students who are pursuing the baccalaureate degree or to graduates who hold a baccalaureate degree from the College of Music. These citations bear the names of distinguished former members of its faculty: the **Ernst von Dohnanyi** citation for excellence in performance or composition; the **Ella Scoble Opperman** citation for distinguished achievement in the teaching of music and outstanding leadership; and the **Warren D. Allen** citation for excellence in scholarship. With faculty approval, additional citations may be awarded to graduates who hold master's or doctorate degrees from the College of Music.

Scholarships/Awards

College of Music financial assistance is available in the form of undergraduate music scholarships and out-of-state tuition waivers. These awards are available to undergraduate applicants who demonstrate superior musical ability and are normally renewable provided satisfactory academic and musical progress is demonstrated.

College of Music scholarship assistance ranges from $500 to $3,000 for in-state students and $500 to $16,000 for out-of-state students. All undergraduate music major applicants are considered for College of Music financial assistance when they audition, provided they audition no later than the deadline established annually by the College of Music.

Additional information regarding College of Music financial assistance may be obtained from the College of Music Web site or by contacting the College of Music's undergraduate studies office.

Requirements

Undergraduate Studies

Program Director: Dr. Joanna Hunt

All students working toward the Bachelor of Music degree, the Bachelor of Music Education degree, or the Bachelor of Arts degree in Music register directly in the College of Music.

Students enrolled in other divisions of the University may take courses in music with the approval of the instructor and the Dean of the College of Music.

Liberal Studies for the 21st Century Program. Undergraduates are required to meet the liberal studies requirements as specified in the various music curricula.

Specific Requirements for all Music Majors

Placement Audition. All entering students are required to take a placement audition in applied music. All applicants must meet appropriate minimum standards through this audition before being granted admission to the College of Music. This audition is heard by a faculty jury and is closed to all except the area faculty concerned. Students are expected to be prepared to play or sing representative works of acceptable repertoire. If students meet the minimum standard requirement but are below freshman level, they must enroll in the applied music MV_ 101_ series until prepared for the MV_ 131_ or MV_ 141_ series. All students have the option of a reexamination for a higher course number at the end of any semester.

Jury Examinations. All students must meet the applied music proficiencies for their individual degree program each term for continuation in the music major. Jury examinations are **required** of all majors and principals at the completion of a two-semester sequence.

Note: At their discretion, applied teachers may require a student to take a jury examination at the end of any semester.

Recital Examinations. Candidates for the Bachelor of Music degree in performance are required to present a joint recital during the junior year (MV_ 3970) and a complete recital in the senior year (MV_ 4971). An examination will precede each of these recitals by at least two weeks. The area faculty will determine the content of the examination. A candidate who passes the examination by a two-thirds positive majority (unless otherwise specified by the area or degree) is eligible to present the required recital.

Student Recital. All undergraduate music majors must enroll and receive a satisfactory grade ("S") in student recital attendance (MUS 1010r) for a total of six semesters during the undergraduate degree program. Attendance requirements for transfer students who were music majors at the institution from which the transfer is made will be determined by the College of Music in accordance with the number of semester hours completed.

Chamber Music. All woodwind and brass first-year and first-year transfer students must register for MUN 2460 Chamber Music during the first Spring and second Fall terms. String first-year and first-year transfer students must register during the first two Fall terms. Other transfers in these areas must register for MUN 2460/4463 during their first Fall term at the University.

Curricular Regulations

Auditions. Placement auditions for all undergraduate majors and music minors are required prior to registration. Jury examinations are given following two semesters of study in each applied music series (MV_1311–4346 series for all majors except performance majors; MV_1411–4446 series for performance majors).

Liberal Studies Requirements. Liberal studies requirements for all undergraduate curricula are listed by areas in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. Undergraduate music majors will fulfill the History requirement by selecting MUH 3211 (three semester hours), and the Humanities and Cultural Practice requirement by selecting MUL 2110 and MUH 2512 (four semester hours). Therapy, choral, instrumental, and general music education majors will select PSY 2012 General Psychology (three semester hours) as the Social Science requirement.

All Music Majors. A candidate for a baccalaureate degree must satisfy the following University requirements:

1. Liberal studies cumulative grade point average (GPA) must be 2.0 or higher
2. Cumulative GPA on all college work must be 2.0 or higher. Cumulative GPA for all music courses must be 2.0 or higher
3. Courses in liberal studies used to fulfill State Board of Education Rule 6A-10.030 must each be completed with a grade of "C–" or higher
4. A minimum of forty-five semester hours of upper division must be completed (3000 and 4000 level courses)
5. The final thirty semester hours must be completed at Florida State University; and
6. A minimum of one hundred twenty semester hours is required for graduation.

Each student is strongly urged to be knowledgeable of curricular requirements and University regulations that govern the student's selected academic program. Although a faculty advisor is assigned to aid and assist a student in academic advisement matters, it is imperative for a student to assume the personal responsibility regarding academic progress and successful completion of the program.

Curricula Leading to the Bachelor of Music Degrees

Note: Students are encouraged to obtain specific program of study guides from the College of Music Web site, at *http://music.fsu.edu/*.

Performance Majors. Candidates for the Bachelor of Music degree in performance must select an area of concentration—piano, organ, voice, harp, guitar, percussion, jazz, or a string, woodwind, or brass instrument—and follow the curriculum in the chosen area of concentration. Bachelor of music degree candidates in all areas of performance are required to present a joint recital during the junior year (MV_3970) and a complete recital during the senior year (MV_4971). An examination will precede every such recital by at least two weeks.

All performance majors except piano and organ majors are required to demonstrate proficiency in playing piano accompaniments of medium difficulty (completion of second-year class piano [MVK 2121r] requirements). Credit earned in class piano may be used to satisfy the applied music secondary requirement. This requirement must be met before the end of the junior year.

Piano Performance Majors. Total of one hundred twenty semester hours: thirty-four semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in keyboard literature; twenty-two semester hours in theory; ten semester hours in music history and literature; eight semester hours of ensemble; eight semester hours of piano pedagogy and piano accompanying; student recital attendance; one semester hour of music technology; one semester hour of conducting, and twenty-nine semester hours of liberal studies.

Organ Performance Majors. Total of one hundred twenty semester hours: thirty-two semester hours and jury competency in applied music, including junior and senior recitals; two semester hours in applied music secondary; six semester hours in pedagogy and repertory; twenty-two semester hours in theory; ten semester hours in music history and literature; four semester hours of ensemble; student recital attendance; twelve semester hours of a foreign language; one semester hour of music technology; one semester hour of conducting; and twenty-nine semester hours of liberal studies.

Voice Performance Majors. Total of one hundred thirty-two semester hours: twenty-four semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in applied music secondary; twenty-two semester hours of theory; ten semester hours in music history and literature; four semester hours of ensemble; student recital attendance; twenty-one semester hours in diction/foreign language; five semester hours of choral literature and conducting and vocal pedagogy; six semester hours of vocal solo literature; four semester hours of opera/music theatre electives; one semester hour of music technology; and twenty-nine semester hours of liberal studies.

Strings Performance Majors (Violin, Viola, Cello, Double Bass). Total of one hundred twenty-one semester hours: thirty-two semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in applied music secondary; twenty-two semester hours of theory; ten semester hours in music history and literature; twelve semester hours of ensemble; student recital attendance; eight semester hours of repertory and pedagogy; one semester hour of conducting; one semester hour of music technology; and twenty-nine semester hours of liberal studies.

Harp Performance Majors. Total of one hundred twenty semester hours: thirty-six semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in applied music secondary; four semester hours in harp pedagogy and literature; twenty-two semester hours of theory; ten semester hours of music history and literature; student recital attendance; eight semester hours of ensemble; four semester hours of electives; one semester hour of music technology; one semester hour of conducting; and twenty-nine semester hours of liberal studies.

Guitar Performance Majors. Total of one hundred twenty-five semester hours: thirty-two semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in applied music secondary; twenty-two semester hours of theory; ten semester hours in music history and literature; four semester hours of ensemble; student recital atten-

dance; twelve semester hours in repertory and literature and pedagogy; eight semester hours of foreign language; one semester hour of conducting; one semester hour of music technology; and twenty-nine semester hours of liberal studies.

Woodwind, Brass, or Percussion Performance Majors. Total of one hundred twenty semester hours: twenty-eight semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in applied music secondary; six semester hours in wind and percussion instrument literature and pedagogy; twenty-two semester hours of theory; ten semester hours of music history and literature; student recital attendance; twelve semester hours of ensemble; six semester hours of electives; one semester hour of music technology; one semester hour of conducting; and twenty-nine semester hours of liberal studies.

Jazz Performance Majors. Total of one hundred twenty-three semester hours: twenty-eight semester hours and jury competency in applied music, including junior and senior recitals; four semester hours in applied music secondary; fifteen semester hours in jazz improvisation, jazz theory and arranging, jazz history, and jazz ensemble techniques; twenty-two semester hours of music theory, ten semester hours of music history and literature; student recital attendance; twelve semester hours of ensemble; one semester hour of music technology; one semester hour of conducting; and twenty-nine semester hours of liberal studies.

Composition. Approval by the composition faculty is required for admission to the program. Total of one hundred twenty semester hours: sixteen semester hours and jury competency in applied music; six semester hours in applied music secondary; thirty-two semester hours of theory; nineteen semester hours of composition; ten semester hours of music history and literature; student recital attendance; senior recital of compositions; six semester hours of ensemble; one semester hour of electives; one semester hour of music technology; one semester hour of conducting; and twenty-nine semester hours of liberal studies.

Candidates for the Bachelor of Music degree in composition must pursue, and complete by jury exam, the study of a principal instrument through the MV_4341–4346 series. If keyboard is not chosen as the principal instrument, the candidate must fulfill the requirements of the completion of third-year (MVK 3131r) class piano. A recital of compositions by the composition major is required during the senior year.

Music Theory. Approval by the theory faculty is required for admission. Total of one hundred twenty semester hours: sixteen semester hours and jury competency in applied music; six semester hours in applied music secondary; thirty-two semester hours of theory; three semester hours of composition; ten semester hours of music history and literature; student recital attendance; two semester hours of electives; two semester hours of thesis; six semester hours of ensemble; twelve semester hours of German; one semester hour of music technology; one semester hour of conducting, and twenty-nine semester hours of liberal studies.

Candidates for the Bachelor of Music degree in theory must pursue, and complete by jury exam, the study of a principal instrument through the MV_4341–4346 series. If keyboard is not chosen as the principal instrument, the candidate must fulfill the requirements of the completion of third-year (MVK 3131r) class piano. A senior thesis by the theory major is required during the senior year.

Music Theatre. Approval by the music theatre faculty is required for admission. Total of one hundred thirty-two semester hours: sixteen semester hours and jury competency in applied music, including junior recital equivalency; four semester hours in applied music secondary; sixteen semester hours of theory; ten semester hours of music history and literature; fifteen semester hours of theatre studies; twenty-one semester hours of movement techniques/dance; four semester hours of music theatre repertory; two semester hours of ensemble; eight semester hours of music theatre workshop; student recital attendance; one semester hour of music technology; one semester hour of conducting; and twenty-nine semester hours of liberal studies.

Music Therapy. Total of one hundred twenty-three semester hours: twelve semester hours and jury competency in applied music; seven semester hours in applied music secondary; sixteen semester hours of theory; ten semester hours of music history and literature; twenty-five semester hours of music therapy; student recital attendance; seven semester hours of ensemble; sixteen semester hours of behavioral/health/natural science; and twenty-nine semester hours of liberal studies. Following the completion of the academic program, candidates must serve a six-month resident internship at an affiliated, approved clinical center. Certain courses may satisfy both liberal studies and degree requirements. Candidates for the Bachelor of Music degree in music therapy who complete by jury exam the MV_ 2321–2326 level in the principal performance area may continue principal instrument study or may elect to study in two or three secondary performance areas. Dance may be used as one of the secondary performance areas. If piano is not the principal instrument, the candidate is required to meet the minimum internship requirements in piano either by completion of second-year class piano requirements (MVK 2121r) or by examination. A total of nineteen semester hours in applied music is required. Students completing the bachelor's degree in music therapy are eligible to sit for the National Certification Examination and earn the credential MT-BC (Music Therapist Board Certified).

Curricula Leading to the Bachelor of Music Education Degrees

Music Education Majors. Candidates for the Bachelor of Music Education degree in choral music must choose as a principal instrument voice, piano, harp, guitar, or organ. Candidates for the Bachelor of Music Education degree in instrumental music will choose as a principal instrument piano, organ, guitar, or an orchestral or band instrument. Candidates for the Bachelor of Music Education degree with an emphasis in music for the general student must choose as a principal instrument voice, piano, harp, guitar, organ, or a band or orchestral instrument. All music education majors must complete applied music requirements as specified in the respective curricula. All music education majors are required to meet the minimum requirements in class piano and class guitar prior to internship.

Florida has placed the following requirements on entry to a teacher certification program:

1. Grades of "C–" or better in all freshman English and basic mathematics courses; and
2. Additional requirements as stipulated by each department.

Admission to the Music Education Professional Sequence. The music education professional sequence comprises the following upper-division courses in the music education curriculum: MUE 3311, 3334, 3343, 3344, 3443, 3491, 3492, 3493, 3494, 3495r, 3496r, 4342, 4392, 4411, 4433, 4480, 4481, 4940; MUS 4970r.

Students pursuing the Bachelor of Music Education degree in general, choral, or instrumental music may apply to the Internship Committee for admission to the professional sequence upon completion of the equivalent of forty-five semester hours at Florida State University or transfer of forty-five semester hours from an accredited community college or senior institution. Students may not enroll in courses listed in the professional sequence prior to formal approval by the Internship Committee.

Qualification for admission to the professional sequence is based upon the following minimum criteria:

1. Cumulative GPA of 2.5
2. Cumulative music GPA of 3.0
3. Successful completion of MUE 2040 with minimum grade of "C–"
4. Successful completion of the FTCE
5. Completion of liberal studies requirements in English and mathematics with minimum grade of "C–"
6. Successful completion of sophomore level applied jury; and
7. Satisfactory faculty evaluations in the areas of music education, applied music, music theory, class piano/guitar, and ensembles.

Transfer students who do not meet all of the above criteria may be admitted to the professional sequence on a provisional basis and may enroll in a maximum of five semester hours of professional sequence coursework during the first term of residence. Students assigned provisional status must complete all requirements and achieve a minimum overall GPA of 2.8 at the conclusion of the first term.

Students may be required to appear before the Internship Committee for an interview. The committee will approve or reject the petition on the basis of the criteria stated above as well as other factors that relate to teaching competency. Applicants denied admission may appeal during the subsequent semester. Those who reapply must appear in person, document the removal of deficiencies that previously prevented admission, and present any other pertinent information to support reconsideration of the application.

Students applying for teacher certification in the state of Florida upon completion of the degree program should request that the certificate be assigned under the status of music education K–12.

Bachelor of Music Education—Instrumental. Total of one hundred thirty-four semester hours: twelve semester hours and jury competency in applied music; three semester hours in applied music secondary; sixteen semester hours of theory; ten semester hours of music history and literature; four semester hours of ensemble; student recital attendance; fifty-four semester hours of music education including internship (students intending to intern in an elementary school must complete MUE 3344 [3] the semester preceding internship); two semester hours of senior project/recital; three semester hours of psychology; two semester hours of electives; and twenty-nine semester hours of liberal studies.

Bachelor of Music Education—Choral. Total of one hundred thirty-four semester hours: twelve semester hours of applied music; five semester hours of applied music secondary; sixteen semester hours of theory; ten semester hours of music history and literature; two semester hours of senior project/recital; student recital attendance; fifty-two semester hours of music education including internship (students intending to intern in an elementary school must complete MUE 3344 [3] the semester preceding internship); six semester hours of ensemble; three semester hours of psychology; and twenty-nine semester hours of liberal studies.

Bachelor of Music Education—General Emphasis. Total of one hundred thirty-four semester hours: twelve semester hours and jury competency in applied music; six semester hours in applied music secondary; sixteen semester hours of theory; ten semester hours of music history and literature; five semester hours of ensemble; student recital attendance; fifty-one semester hours of music education including internship; two semester hours of senior project; three semester hours of psychology; and twenty-nine semester hours of liberal studies.

Curriculum Leading to the Bachelor of Arts Degree in Music

Total of one hundred twenty semester hours: eight semester hours and jury competency in applied music; sixteen semester hours of theory; ten semester hours of music history and literature; four semester hours of ensemble; twelve semester hours of upper-division music electives; student recital attendance; twelve semester hours of foreign language; thirty semester hours of electives/minor requirements; and twenty-eight non-music semester hours of liberal studies. At least sixty-six semester hours must be earned in non-music coursework.

Requirements for a Minor in Music

Admission to the program is by approval of the College of Music and by a placement audition at the principal level on an acceptable instrument or voice.

Music Minor. Total of twenty-five semester hours: four semester hours in applied music; twelve semester hours of theory; seven semester hours of music history and literature; two semester hours of ensemble; and two semesters of student recital attendance.

COLLEGE OF NURSING
UNDERGRADUATE

Interim Dean: Laurie Grubbs

The College of Nursing has been educating men and women for the practice of professional nursing since 1950. The College offers undergraduate and graduate programs leading to a Bachelor of Science in Nursing (BSN) and a Doctorate of Nursing Practice (DNP). For further information on graduate programs, see the *Graduate Bulletin*.

The undergraduate programs are approved by the Florida Board of Nursing and accredited by the Commission on Collegiate Nursing Education (*http://www.ccneaccreditation.org*). The mission of the College of Nursing is to educate clinicians, leaders, scholars, and advanced practitioners who can enhance the quality of life for people of all cultures, economic levels, and geographic locations. The College of Nursing integrates the liberal arts and science with the knowledge, skills, and attitudes essential for lifelong learning, personal responsibility, and sustained achievement in the nursing profession and the communities in which our graduates reside.

At the completion of the program, the student will have met all major requirements for the Bachelor of Science in Nursing. The traditional graduate of the nursing program also will have met the academic eligibility requirements for taking the national licensing examination for registered nurses (NCLEX).

The program is an upper-division limited access major with required sequential course offerings and elective courses in nursing. The nursing courses are based on concepts and principles from liberal studies, the supporting biological and behavioral sciences, and nursing theory. This theoretical base is used with the nursing process in the systematic development of nursing care for individuals and groups in a variety of health care settings.

The graduate of the Florida State University College of Nursing's undergraduate program is a reflective practitioner who is able to:

1. Integrate knowledge, skills, and values from liberal studies with nursing science to provide safe, effective nursing care;
2. Assume basic organizational and leadership roles in the provision of high quality nursing care;
3. Demonstrate beginning scholarship and analytical methods for evidence based nursing practice;
4. Use information management and patient care technology to improve care delivery;
5. Demonstrate understanding of the impact of health care policy, finance and regulatory environments on patient care and nursing practice;
6. Use interprofessional communication and collaboration skills to optimize patient health outcomes;
7. Incorporate prevention of illness and population health strategies for optimizing health-related outcomes;
8. Demonstrate professionalism; and,
9. Provide compassionate nursing care guided by a scientific base of knowledge.

The traditional BSN program is an upper-division major with required prerequisites and a sequential ordering of courses in semesters I - IV. The accelerated BSN (ABSN) program is an upper-division major with required prerequisites and a sequential ordering of courses for students having a bachelor's degree or higher in another discipline. The BSN for veterans (VBSN) is an upper division major for the military veterans who have been honorably discharged from military service.

Facilities

A variety of clinical laboratory settings are utilized for meaningful learning experiences. The College of Nursing Simulation Laboratories, Tallahassee Memorial HealthCare, Capital Regional Medical Center, Florida State Hospital, Archbold Medical Center Thomasville, GA, county health departments, and other agencies in Leon and surrounding counties are used for the clinical component of the program. In addition, Wolfson Children's Hospital in Jacksonville, Florida is used for pediatric clinicals. Internship clinical sites are available in partnership with acute care facilities. All experiences are under the direction of the faculty of Florida State University's College of Nursing.

Opportunities

The College of Nursing offers honors coursework in the baccalaureate program. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Scholarships

Students requiring financial assistance should file an application with the Office of Financial Aid or confer with an academic advisor at the College of Nursing. Numerous scholarships and loans from federal, state, private, and College of Nursing sources are available.

BSN Program Requirements

Students desiring to enter the nursing profession should indicate their major preference on the University application and seek guidance from an academic advisor in the College of Nursing. A separate application to the College of Nursing is required for upper division admission to the nursing program. Applicants who meet the GPA requirements are required to participate in a live interview. The application deadline for the Traditional Program is February 1st and the application deadline for the Accelerated Program is September 15th.

The College of Nursing program is an upper division limited access major accepting students in the junior year. Admission is competitively based on previous academic performance. The Florida Board of Nursing and several state and/or private agencies require the disclosure of conviction records for misdemeanors and/or felonies; therefore, this information will be required at the time of admission. Legislation aimed at protecting the public has made it necessary to require a Level II criminal background check (this includes FDLE and FBI) for all students admitted to the College of Nursing. The Level II report must be on file at the College of Nursing before students can enroll. If the background check reveals violations resulting in students being denied admission to a clinical agency and/or access to patients in the agency, and if a comparable assignment cannot be made to meet course objectives, the student will be unable to progress and complete the program in the College of Nursing. Completion of the curriculum does not guarantee the Florida Board of Nursing (or any other licensing body) will allow students with criminal records to take the licensing examination to become a registered nurse. The cost for these background checks must be paid by the student. The background check will include the following: Patriot Act, Social Security Alert, Nationwide Healthcare Fraud and Abuse Scan, Sex Offender Index, local criminal check, residence history, and employment verification. Students will be required to submit a notarized Affidavit of Good Moral Character on an annual basis following the initial background check. Additional background checks may be required during the program based on clinical agency requirements. Drug screening will be required upon admission, and additional screening may be required throughout the program.

Students enrolled in the nursing program are expected to exhibit behavior that conforms to the *Nurse Practice Act of the State of Florida*. The College of Nursing reserves the right to refuse or discontinue enrollment of any student if the student violates the *Nurse Practice Act of the State of Florida* or in the judgment of the faculty the student does not meet the College's standards.

A drug math requirement is included in specified nursing clinical courses. A student must achieve one hundred percent accuracy to meet the drug math requirement of each clinical course. If a student fails to achieve one hundred percent on a third, repeat testing, the student is required to withdraw from the specified lab course.

To support the clinical competence of each student and promote patient safety, the College of Nursing has adopted a requirement of mid-curricular clinical assessment at the end of the 2nd semester. Each student is required to successfully complete the mid-curricular clinical assessment. A student who fails to perform the testing correctly and safely is permitted one repeat testing. A student who is still unable to demonstrate safe, competent care in a simulated clinical environment will be placed on a corrective action and will meet with the Assistant Dean of Undergraduate Programs prior to beginning NUR 4766L and NUR 4555L.

A student who is passing a nursing course but has not completed all the required work for the course at the end of the term may, with the permission of the instructor, be assigned a grade of "I", or incomplete. Students may not carry an incomplete grade in a prerequisite course through the next term. If the incomplete grade is not changed to a passing grade by the end of the drop/add period at the beginning of the next term, the student will be dropped from the continuing course(s).

A student must achieve a grade of "C" (2.0 on a 4.0 scale) or higher in each nursing theory and "S" (Satisfactory) in clinical (both elective and required) courses. Any course in which a grade below "C" is earned must be repeated before the student will be allowed to progress. Students who earn two final course grades below "C" (including a grade of "U") in theory and/or

clinical courses, whether repeated or not, will not be permitted to continue in the College of Nursing. Students may repeat a nursing course only one time. Students will not be permitted to repeat a clinical course in the same semester in which the course was originally taken. Students are not permitted to take two different level clinical or theory courses at the same time.

Nursing majors are responsible for transportation expenses related to clinical experiences. They are required to carry health and accident insurance. To safeguard the health of clients, nursing students are required to submit proof of health examination and immunizations thirty days prior to the first day of orientation. Failure to comply will result in rescinding the seat in the program. Students must maintain proof of American Heart Association BLS for Healthcare Provider certification, personal health insurance, and annual tuberculin skin testing throughout enrollment in the College of Nursing. Additional requirements may be imposed by individual clinical facilities/agencies.

Candidates for the Bachelor of Science degree in the undergraduate nursing program must comply with University regulations governing baccalaureate degrees and must complete the following:

1. All University undergraduate degree requirements, including specific prerequisites as outlined above
2. Required nursing courses
3. Required standardized testing throughout the program (a fee, subject to change without notice, must be paid)

COLLEGE OF SOCIAL SCIENCES AND PUBLIC POLICY UNDERGRADUATE

Dean: Timothy Chapin; **Associate Deans:** Robert E. Crew, Jr., Mark W. Horner, Deana Rohlinger; **Assistant Dean:** Tanya Perry

The University established social sciences as a separate College in 1973. The departments and programs that make up the College date from the earliest days of the University.

Students in the College excel in all aspects of University life. Graduates of the College have won some of the most prestigious academic awards available to undergraduate students, including the Harry S. Truman, Boren, and Rhodes Scholarships. More than twenty students from the social sciences have served as the Student Body President of student government. Our graduates have been ambassadors, senators, governors, and corporate CEOs, and have excelled in virtually all areas of the government, academic, non-profit, and private sectors.

The College's faculty teach courses and do research related to every socio-economic and political issue that confronts the United States at home and abroad. Among the distinguished faculty are nine eminent scholar chairs: the Mildred and Claude Pepper Eminent Scholar Chair in Social Gerontology, Jerry Collins Eminent Scholar Chair in Public Administration, Reubin O'D. Askew Eminent Scholar Chair in Florida Government and Politics, Rod and Hope Brim Eminent Scholar Chair in Economics, DeVoe Moore Eminent Scholar Chair in Economics, John and Hallie Quinn Eminent Scholar Chair for the Renewal of American Heritage and American Free Enterprise, Gus Stavros Eminent Scholar Chair in Economic Education, LeRoy Collins Eminent Scholar Chair in Civic Education, and Syde P. Deeb Eminent Scholar Chair in Political Science. A significant number of other faculty have been honored with named professorships because of their outstanding teaching and important research contributions.

Study in social science develops knowledge of people and society. Critical issues facing the United States and the world in the twenty-first century are the subject matter of our College. Here, critical thinking, analytical methods, and empirical skills are used to understand the key political, social, and economic issues that dominate our public discussions. Our subject matter helps the student understand those aspects of the basic liberal arts that deal with the individual in social context. This understanding includes the role of social diversity, such as the complex world of foreign cultures, the wide range of cultural experiences represented in the United States, and the value of recognizing these differences in one's own intellectual growth. The social sciences also foster analytical and critical thinking to better equip the individual to live in and understand our increasingly complex society. Finally, the social sciences help students explain different political, social, cultural, and economic structures, their importance, and the basis for their change and growth.

Programs and Structure

The College of Social Sciences and Public Policy focuses upon both basic knowledge and the application of that knowledge to policy questions and public affairs. In applied policy, the College's interests center on regional, national, and international affairs, and it has a particular interest in state issues, befitting the University's location in the capital of the state of Florida.

The College consists of one school, the **Reubin O'D. Askew School of Public Administration and Policy**; five departments: **Economics**, **Geography**, **Political Science**, **Sociology**, and **Urban and Regional Planning**; a number of research units: **the Pepper Institute on Aging and Public Policy**, the **Center for Demography and Population Health**, the **DeVoe L. Moore Center for the Study of Critical Issues in Economic Policy and Government**, the **Collins Center for Public Policy**, the **Stavros Center for Economic Education**, and the **Florida Public Affairs Center**; and interdisciplinary programs in **African American Studies**, **Asian Studies**, **Demography**, **Environment and Society**, **International Affairs**, **Latin American and Caribbean Studies**, **Law and Society**, **Public Health**, **Russian and East European Studies**, and **Social Science**.

The instruction offered by the College meets a variety of needs within the University. Social science is a component of the Liberal Studies for the 21st Century and Honors programs, and each of the departments offering a bachelor's degree has course offerings in the general education curriculum and Honors. The social sciences residential learning program in Global and Public Affairs also helps students develop the critical capacities necessary for active participation in the affairs of the state, the nation, and the international community. The College offers eleven programs of study for the bachelor's degree with departmental majors in Economics, Geography, Political Science, and Sociology, and the interdisciplinary programs listed above. In addition to these programs, undergraduate minors are offered in Law and Society, Public Administration, Urban and Regional Planning, Sociology of Health and Aging, and Population Studies. Many students in other colleges of the University are either required to take some courses in the College as part of their program of study (e.g., all College of Business majors take two courses in economics) or choose to do so as part of their electives. The College encourages and welcomes diversity in student background in its courses. Finally, the College has a large graduate program, offering the master's degree in twenty-three areas, the Doctor of Philosophy in six fields, and numerous graduate certificates. For details of graduate programs of the College, refer to the University's *Graduate Bulletin*.

The College views its role in undergraduate education as having at least three main parts. First, in its contributions to general education and its courses taken by students as electives, the primary objective is to introduce students to the methods and modes of thought of the social sciences. Second, in its undergraduate degree programs, the College seeks to prepare its students both to be responsible and informed citizens with an appreciation of how the world works and to be ready for employment. Third, the College seeks to prepare students for further study in the social sciences or professional schools. Each undergraduate program has a faculty member as director, and academic advice is provided by the faculty. Professional academic advisors located in the College's student academic affairs office assist undergraduates with academic advising, career counseling, and graduation checks. The College actively participates in the liberal studies honors program and offers honors in the major in all of its programs. The College of Social Sciences and Public Policy's residential program in Global and Public Affairs provides opportunities for students to take courses on a variety of topics related to government and public policy. Participants involved in this living and learning community benefit from a variety of academic and social enrichments and enjoy interaction with their instructors and fellow students.

The Reubin O'D. Askew School of Public Administration and Policy, the Departments of Economics, Geography, and Political Science, and the Interdisciplinary Programs in International Affairs and Social Science offer internship programs for qualified undergraduates. Some are open not only to majors, but to other students who meet the programs' criteria (see relevant entries in this *General Bulletin* for details). The University's location in the state capital provides excellent opportunities for internships.

All departments and programs in the College engage in contract and grant research, and there are often opportunities for work-study employment for qualified undergraduates either on outside-funded research or on University-funded activities.

The College regularly sends faculty and students to the University's London Study Center, the Florence Study Center, Valencia Study Center, and other international programs throughout the world. A semester in either the London, Florence, or Valencia center will usually fit into a student's program of study without delaying graduation and is very appropriate to most of the College's undergraduate programs. Other international activities include studies at the University of Costa Rica, the Republic of Panama, Japan, the Netherlands, Croatia, China, Bali, and Turkey.

Requirements

Undergraduate majors enter the College either from the University's Division of Undergraduate Studies or as junior-level transfers from other institutions or other colleges within the University. The Economics program is a limited access program, and students wishing to major in Economics should consult the "Department of Economics" entry in this *General Bulletin* for specific entry requirements. Students in good standing (i.e., with a GPA of 2.0 or better), on track with mapping, and eligible for upper division may declare other non-limited access majors within the College. Most majors do have some required or recommended courses that are advisable to take in lower-division study. For more information, please go to *http://www.academic-guide.fsu.edu/*. It is useful for potential majors to consult the relevant program entry in this *General Bulletin* well before they become juniors or enter the College.

General Requirements

1. Compliance with general University regulations governing baccalaureate degrees.
2. For the Bachelor of Arts degree, completion of the special University-wide requirements for that degree.
3. Completion of a major and a minor, with the exception that interdepartmental majors, International Affairs, Environment and

Society, African American Studies, Russian and East European Studies, Asian Studies, Interdisciplinary Social Science, Public Health, and Latin American and Caribbean Studies do not require completion of a minor.

4. International Affairs, Asian Studies, Latin-American and Caribbean Studies, and Russian and East European Studies majors must meet University foreign language requirements in a relevant language whether they wish to receive a BA or a BS. Other majors in the College have no foreign language requirement if the student wishes to receive a BS.

Majors. Each candidate for the baccalaureate degree must complete major requirements in one of the departmental or interdepartmental programs listed below. The major consists of thirty to forty-three semester hours. For specific requirements, refer to the individual programs in this *General Bulletin*.

Departmental Majors. Economics, Geography, Political Science, and Sociology.

Interdepartmental Majors. African American Studies, Asian Studies, Asian Studies/Business, Environment and Society, Interdisciplinary Social Science, International Affairs, Latin American and Caribbean Studies, Latin American and Caribbean Studies/Business, Public Health, and Russian and East European Studies.

Minors. Each candidate for the baccalaureate degree must complete a minor, unless he or she is pursuing an interdepartmental major. The minor may be taken in a program offered through the College of Social Sciences and Public Policy or through another college of the University. The College offers minors in the programs that offer majors, as well as Law and Society, Population Studies, Public Administration, Sociology of Health and Aging, and Urban and Regional Planning. Students should consult their academic advisors on the choice of appropriate minor(s).

The minor will consist of at least twelve semester hours that meet both the requirements of the program offering the minor and the minor requirements of the student's major. Students pursuing two degrees (dual degree or a second baccalaureate degree) must have a separate minor for each degree that is awarded by this College if that major requires a minor. If one of the degrees is to be awarded by another college in the University, that dean's office will specify any minor requirements.

Coursework used towards satisfying minor requirements cannot be used towards satisfying General Education requirements. Coursework used towards satisfying minor requirements cannot be used towards satisfying the foreign language requirement. Generally, work used to complete the major may not also count for, or overlap with, a minor. Students should consult their academic advisor for additional information.

Consult program and departmental entries in this *General Bulletin* or see *https://www.academic-guide.fsu.edu/minors* for specific minor requirements. Please note that completion of an FSU certificate program will not satisfy college minor requirements.

Double Majors

Many students take two majors, i.e., a double major, rather than a major and a minor, and an increasing number of students follow this route to the baccalaureate degree. For a double major, the student must meet the program requirements of both majors, with the following exception: Students completing a double major do not have to complete a minor. Students may overlap up to a maximum of six hours between majors within and outside of our College. Any specific questions about the overlap between majors should be directed to an academic advisor.

Dual Bachelor's Degrees

Students may pursue multiple bachelor's degrees simultaneously. To earn concurrent, or dual bachelor's degrees, students must satisfy the requirements for each major, including required minors, foreign language, and college requirements, for both the first and the second degree. Dual degrees require completion of a minimum 150 earned hours.

Second Bachelor's Degree

Students returning for a second bachelor's degree can overlap a maximum of 12 hours of coursework taken within the first bachelor's degree with the second bachelor's degree. To earn a second bachelor's degree, students must complete a minimum of 30 hours in residence at FSU beyond the first bachelor's degree. If pursuing a departmental major in the College, students must also complete a minor in addition to all major requirements. If pursuing an interdepartmental major in the College, no minor is required.

Combined Bachelor's/Master's Pathways

The College's combined bachelor's/master's pathways provide academically talented students an opportunity to complete a bachelor's and a professional master's degree in a shorter time span. Qualified upper-division undergraduate students may take up to twelve hours for graduate credit, while counting those credits towards their bachelor's degree as well. Students from any undergraduate major taught at FSU may be accepted to the Combined Bachelor's/Master's Pathways of either the Department of Urban and Regional Planning (Master of Science in Planning), the Reubin O'D. Askew School of Administration and Policy (Master of Public Administration), Public Health (Master of Public Health), Center for Demography and Population Health (Master of Science in Demography), or Political Science (Master of Science in Applied American Politics and Policy). Students completing an undergraduate major in Geography or Environment and Society at FSU may be accepted to the Combined Bachelor's/Master's Pathway of the Department of Geography (Master of Science in Geographic Information Science).

Preparation for the Study of Law

Many of the College's graduates enter law school. There are no required courses for admission to law schools, and law schools advise strongly against attempts to construct "prelaw" majors. Appropriate law school preparatory study is, thus, very flexible, and all of the College's undergraduate majors are appropriate. Students intending to apply to law school may consult their undergraduate program director or the College's academic support program coordinator (see *http://prelaw.fsu.edu*).

Preparation for a Teaching Career

In order to teach in the state of Florida, a student must complete a teacher preparation program. The teacher education program may be combined with a baccalaureate degree from the College; however, students must formally apply and be admitted to teacher education, administered through the College of Education's Office of Academic Services, *203 Stone Building*. Admission to teacher education is distinct from admission to a College or undergraduate major, and has different admission criteria. For details, consult the "College of Education" chapter of this *General Bulletin*. Undergraduates who may wish to teach should consider taking teacher education courses simultaneously with their major programs.

Honors in the Major

The College of Social Sciences and Public Policy offers honors in the major in all of the College's programs. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Dean's List

Students in good standing who in any term carry a full-time course load of twelve or more graded semester hours with a term GPA of 3.5 or better earn the distinction of being on the dean's list.

COLLEGE OF SOCIAL WORK
UNDERGRADUATE

Dean: James J. Clark; **Associate Dean for Academic Affairs:** B. Craig Stanley; **Associate Dean for Research:** TBA

The social work program at Florida State University has its origins in the early history of the institution, with social welfare content first being introduced into the curriculum in the 1920s. By the mid-30s, during the Great Depression, undergraduate courses in casework and group work were offered, as well as field placements at the Leon County Welfare Association and the Leon County Unemployment Relief Council.

In 1947, the year that the Florida State College for Women was named Florida State University, the graduate program in social work accepted its first class of students. In 1949, Dr. Coyle Moore became the Chair of the Department of Social Welfare and the master of social work program was accredited by the Council on Social Work Education, which has earned re-accreditation continuously since that time. The School of Social Welfare was created in 1950. The undergraduate program was accredited in 1974, the first year that undergraduate programs were granted accredited status.

The PhD program in social work was approved by the Board of Regents in 1974 and accepted its first student in the fall of that year. In June 1973, as part of an overall University structural reorganization, the social work program became identified as the School of Social Work, and in the spring of 2005 became the College of Social Work. It is currently one of twenty-nine schools in the United States that offers social work degrees at the baccalaureate, master's, and doctoral levels and the first master's program in the U.S. with a complete online curriculum.

The College of Social Work is dedicated to the preparation of tomorrow's social workers who demonstrate awareness of the impact of the many social changes that have taken place in our contemporary world. The College's curriculum is continually updated, recognizing and responding to the changing demands made on the profession. The curriculum is rooted in the ecosystems perspective, which serves as an organizing framework for the entire program, thereby providing an effective basis for studying people and their environment. The combination of class and field work provides students with a rich educational experience and the opportunity for the integration of research, theory, and practice.

The College of Social Work is committed to the pursuit and delivery of excellence in social work education. Through teaching, research, and service, the College educates its graduates for productive careers as professional social workers in diverse arenas, contributes to the knowledge base guiding social welfare practice and policy decisions, and offers expertise and energy to local, state, and national concerns.

The College's initiatives build on the traditional heritage of social work and are guided by a commitment to community-based social services. Recognizing that communities function as political, social, and familial entities, the College's efforts emphasize, but are not limited to, health care, mental health, and the special concerns of children, families, women, and the aged. In all of its capacities, the College recognizes and values mutuality among diverse community groups, and promotes models of service delivery empowering the poor and disadvantaged and ensuring the social services of all community members.

Degree Programs

Bachelor of Social Work (BSW)

BSW Program Director: Pamela Graham MacDill, MSW

The curriculum offered at the baccalaureate level is designed to enable students to provide services to individuals, families, groups, communities, and organizations in generalist social work practice.

Master of Social Work (MSW)

MSW Program Director: Fran Gomory, MSW

The curriculum at the MSW level is designed to provide quality preparation for high-quality advanced practitioners who will work with diverse client systems and problems. Students may choose an advanced curriculum in either clinical or social policy and administrative concentrations.

Doctor of Philosophy in Social Work (PhD)

PhD Program Director: Stephen Tripodi, PhD

The PhD program in social work is designed to advance the social work profession through the development of researchers/scholars and educators.

Overseas Study

International Program Director: Neil Abell, PhD

Florida State University offers students the opportunity to study abroad and to gain valuable experience through international internships. For information concerning eligibility, fees, and other details of these programs, contact the College's Director of International Programs. Social work majors are encouraged to consider these opportunities for study overseas.

Requirements

Requirements for a Major

The BSW Program is limited access and the admission requirements include: completion of liberal studies at Florida State University or completion of an Associate of Arts degree from a Florida public community college and a minimum of a 3.0 grade point average (GPA) on all college work attempted. Students are admitted during the Fall or Spring semesters. In addition, students must meet the following prerequisites by the end of Term 4 (or before admission to FSU, if the student is transferring from a community college):

1. Completion of a course in each of the following cognates with a grade of "B–" or better: (a) American Government (American National Government or American Government); (b) Biology (Human Biology or Human Anatomy and Physiology); (c) Economics (Introduction to Economics, Microeconomics or Macroeconomics); (d) Introductory Psychology; and (e) Introductory Sociology or Social Problems
2. Complete a formal application to the BSW Program.

A minimum of fifty semester hours in social work is required for graduation. It is expected that each student, with counsel from the advisor, will move through the required courses in the sequence specified in the academic map. Required courses in the major are SOW 3203, 3350, 4104, 4232, 4323, 4341, 4360, 4403, 4414, 4510, 4522, and 4620 and two social work electives for a total of fifty credit hours towards the required sixty to earn a bachelor degree.

Students must earn a minimum GPA of 3.0 in all courses attempted to be eligible to complete an internship in their final semester. No social work course with a "U" or a letter grade below "C–" will apply toward a social work major.

The College of Social Work **does not** require a foreign language as part of its undergraduate program of studies. **However**, in order to graduate from Florida State University all students must provide the University with verification of completion of two units of the same foreign language in high school or at least eight semester hours of the same foreign language (or equivalent proficiency) at the college level. Students are expected to have satisfied this requirement upon admission to the University.

Students majoring in social work are not required to complete a minor in another department, but must have a total of sixty hours to graduate.

Field Education

Director of Campus-Based Field Education: Katrina Boone, MSW; **Director of Online Field Education:** Rosalyn Deckerhoff, MSW

The purpose of field education is to provide students with a structured learning opportunity for development and reinforcement of appropriate levels of competence in the field of social work. Field education allows students to apply knowledge, values, and skills learned in the classroom to social work practice settings. As students undertake learning tasks within the reality of agency life, a vehicle is established whereby knowledge and theories can be applied, attitudes and values examined, and skills developed and refined.

The field education component of the College of Social Work is designed to ensure that each student completes a high quality educational experience in a supervised agency placement. This learning experience is designed to enhance a student's ability to integrate theory into effective evidence-based social work practice, broaden the range of skills for performing social work functions, and strengthen awareness of attitudes, motivations, and judgments identified with the profession of social work. The Office of Field Education selects field placements based on the potential for providing the range and depth of learning experiences necessary to achieve the educational objectives established for those students. Agencies affiliating with the College of Social Work represent the diversity found in social services throughout our community. The College offers a wide array of internships in both public and private agencies, and with diverse populations of clients so that students will be provided opportunities for exposure to a wide range of social work roles and learning tasks.

Undergraduate field education, SOW 4510, is a twelve semester hour course (512 clock hours) that requires the student to register for and successfully complete a thirty-two hour per week field placement for one semester. Students must register concurrently for SOW 4522, Integrative Seminar. The field education course is designed to help students develop the skills necessary for generalist social work practice.

The course is restricted to social work majors and can only be taken after the completion of all courses necessary for the completion of the degree. The student must have a GPA of 3.0 or better in all social work courses and an overall GPA of 3.0 in order to register for SOW 4510.

Honors Programs

The College of Social Work encourages students to apply for the honors program. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Minor in Social Welfare

A minor in social welfare requires twelve hours in social work courses with a grade of "C–" or better in each of the following courses: SOW 3203, 3350, and two social work electives. At least six hours must be completed at FSU. Students must complete an application for the minor and register for SOW 3350 and SOW 3203. Please note that the minor does not qualify a student to apply for advanced standing graduate programs in social work or for professional certification or licensure.

Program Opportunities

The College of Social Work offers other opportunities that afford students the ability to focus on specialized areas of interest. With guidance from advisors, students may create a program of study that meets their specific educational and career goals.

Child Welfare Practice Certificate Program

This certificate program offers both undergraduate and graduate students an opportunity to focus their curriculum on issues related to child welfare. Coursework addresses: the prevention of neglect, abuse, exploitation, or delinquency of children; the protection of homeless, dependent, or maltreated children; the strengthening of families to maintain children in their own homes; the development of advocacy groups, and analysis of social policies and mental health issues related to this population. Child welfare practitioners provide a continuum of services in both public and private settings. For further information, visit *http://csw.fsu.edu/academics/certificate-programs/child-welfare-practice-certificate*.

Certificate in Gerontology

The mission of this certificate is to educate students about gerontological theories and practices and provide students with gerontological internship and service-learning experiences. These educational objectives will give students the skills they need for frontline positions in practice and administrative positions in social service organizations. An in-depth curriculum that emphasizes leadership, decision-making, client-centered management, team building, negotiating, budget and finance, and the successful management of grants will guide FSU students in successfully managing social service agencies and affecting policy and practice on all levels. For more details, visit *http://csw.fsu.edu/academics/certificate-programs/gerontologyaging-studies-certificate*.

Research and Outreach Programs

The Florida Institute for Child Welfare

The Florida Institute for Child Welfare (FICW) seeks to promote safety, permanency, and well-being among the children and families of Florida involved with the child welfare system. To accomplish this mission, the FICW proposes to engage in interdisciplinary research and evaluation, the foundation of which lies in partnerships between Florida universities, schools of social work, the Department of Children and Families (DCF), sheriffs, community-based care lead agencies and provider organizations and others across Florida. The FICW proposes to collaborate with community agencies and statewide training resources to translate knowledge generated through research, policy analysis, and evaluation into practical, developmentally appropriate strategies for children and families. The FICW will serve as a resource for policy-makers, programs, and practitioners on best-practices related to safety, permanency, and well-being with attention to diverse and underserved populations. The FICW will also work to strengthen the child welfare workforce through assessing the readiness of workers to assume job responsibilities, evaluating pre- and in-service training, determining adaptive and resilient responses of workers to stressful work environments, developing leadership capacity, and identifying innovative and effective methods in the management of human service organizations.

Center for the Study and Promotion of Communities, Families and Children

Mission

The Center for the Study and Promotion of Communities, Families and Children ("CFC Center") was created by the Stoops Family Foundation, Inc. to generate and sustain transformational knowledge development for effective policies, services, and usable research for the promotion of communities, families, and the children of Florida, the nation, and across the globe.

Institutes and Centers

Housed under the CFC Center are the Institute for Family Violence Studies (*https://familyvio.csw.fsu.edu*), Institute for Justice Research and Development, the Multidisciplinary Evaluation and Consulting Center (*https://mdc.fsu.edu*), and Trinity Institute for the Addictions (*https://csw.fsu.edu/research/institutes-centers/trinity-institute-addictions*).

Advisory Council

The Center is overseen by its Advisory Council, serving as a voluntary advisory and support group that assists the Center's mission. The council works directly with the Dean of the FSU College of Social Work, the Center's Executive Director, and the College of Social Work's Director of Development. The Advisory Council promotes the general and financial welfare of The Center by establishing beneficial relationships and networks between FSU alumni, faculty, staff, students, friends, and the community.

Institute for Family Violence Studies

The endowed Institute for Family Violence Studies has been established within the College of Social Work to research family violence as it occurs in all age groups, including children, adults, and the elderly; identify and explore related research domains, including supervised visitation, homelessness, and women's issues; disseminate the findings of this research at the local, state, national, and international levels; evaluate the effectiveness of family violence intervention; support the development of innovative programs for reducing family violence; analyze legislation addressing family violence issues; develop curricula that strengthen social work studies on family violence; provide continuing education and training opportunities to those working in agencies that provide services for those experiencing family violence; serve as a regional clearinghouse on resources related to family violence; and collaborate with the courts and community organizations on family violence concerns.

Multidisciplinary Evaluation and Consulting Center

The Florida State University Regional Multidisciplinary Evaluation and Consulting Center is a full-service, University-based diagnostic and training center that has been in operation since 1983. Comprehensive diagnostic and consultative services are provided to eighteen school districts in the Panhandle region of north Florida. Referrals also are accepted from the research schools at Florida State University and Florida A&M University, as well as Children's Medical Services and other state and community agencies. Multidisciplinary collaboration is an integral part of center services. The staff includes professionals from school, counseling, and clinical psychology, counseling education, and social work. Consultation with professionals from speech and audiology and pediatric medicine also is available.

Trinity Institute for the Addictions

The Trinity Institute for the Addictions is an endowed social work institute focused on biopsychosocial approaches toward the prevention and treatment of substance use, abuse, and dependence across all domains of practice. To that end, the Institute is dedicated to advancing translational research with an emphasis on intervention strategies to address the effects of addictive processes on body, mind, and spirit. The scope of the Institute encompasses the conduct of etiological, epidemiological, and clinical research, as well as training and services that leverage evidence-based practices from the leading edge of addiction science.

Institute for Justice Research and Development

The Institute for Justice Research and Development is a premier research center in the College of Social Work at Florida State University focused on criminal justice system-wide practice and policy innovations and preparing the social work profession for leadership in smart decarceration. The multidisciplinary center forges campus wide and national wide partnerships in criminal justice research.

The Institute is first-of-its-kind in a college of social work — a research center focused on preparing the profession of social work to practice and research

in areas of justice-involved individuals and their families. At the Institute we prioritize highly active research-practice-policy partnerships. Through these partnerships, evidence informs practice/policy strategies and policy/practice strategies shape research agendas. We use a unique research-to-practice/practice-to-research methodology that can be employed in the context of a research trial in order to speed the translation of learnings to almost real-time.

Student Organizations

The **Student Association of Social Workers (SASW)** is an organization of and for social work students. It is open to undergraduates as well as graduates, and participation by all is welcomed. The association is a good vehicle for socialization into the profession and orientation to the College. It can be used as a channel for handling feedback to the school about the program and is an excellent way for students to get to know one another as well as to participate in a wide array of community service activities.

The **Phi Alpha Honor Society** serves as a means of recognizing outstanding academic students. The society involves itself in fundraising and community service.

Sigma Phi Omega recognizes excellence of those who study gerontology and aging and the outstanding service of professionals who work with or on behalf of older persons.

College of Social Work Scholarships

The following scholarships are offered to Social Work majors. If you would like information on how you can apply, please contact the BSW Program office at the College of Social Work at *(850) 644-5713* or e-mail *bsw@csw.fsu.edu*.

Citrus Health Network Scholarship

Established in 2002, this scholarship serves as a lasting tribute to the community services provided by Citrus Health Network, Inc. It is awarded annually to graduate students who are interested in working in the behavioral healthcare field in the Miami-Dade County area.

Mark DeGraff and Lula Hamilton DeGraff Scholarship

This award, first presented in 1985, is given to a senior undergraduate or graduate student who intends to conduct research on factors influencing the growth and development of youth, or who intends to work professionally with youth.

Joanna F. Gorman Scholarship

This scholarship was established to honor Dr. Gorman who had a deep commitment to the profession's development and a clear vision of social work's mission to create a more just society. Full-time social work students receiving this award show evidence of outstanding academic achievement, exemplify the highest standards of character, and plan to work for one year in the area of child welfare, health, or mental health.

Herndon Scholars Program

The Herndon Scholars Program, sponsored by the Helios Education Foundation, is an endowed fund that was created in 2007 and first presented in Fall 2008. It provides annual scholarships to graduate students in the FSU College of Social Work. Recipients of the award must be Florida residents. Preference is given to students who have social work practice experience prior to graduate school.

Walter W. Hudson Doctoral Scholarship

This scholarship honors Dr. Walter Hudson, a former faculty member who was named the first recipient of the prestigious Lifetime Achievement Award from the Society of Social Work and Research in 1999. Dr. Hudson was an international leader in measurement theory, development and testing of assessment and outcome evaluation tools, statistics, evidence-based practice methodology, and computer applications for practice. This award is intended for a PhD student at the College of Social Work.

Margaret H. Jacks Scholarship in Aging

Ms. Jacks was a formidable and outspoken advocate for elderly Floridians for more than five decades. This award is directed to graduate students studying gerontology. Recipients must have completed one course on aging or demonstrated a commitment to the field of aging through volunteer or work experiences.

Richard M. King Scholarship in Social Work and Business Administration

This endowed scholarship was established by alumnus Richard King (MSW '69) to encourage graduate students who demonstrate interest in earning both an MSW and a Master's in Business Administration (MBA). Social work students who take electives in the College of Business are also eligible for the award.

James and Mary Koalska Undergraduate Scholarship

This memorial scholarship fund was set up by Professors Paul and Betty Piccard in memory of Betty's parents, James Koalska and Mary Brennan Koalska. The Koalskas were the children of Irish and Polish immigrants and entered the work force at a very young age. While they could not benefit from a college education themselves, they valued education and provided their daughters with opportunities in higher education – one in nursing, the other in social work. This award is intended to cover tuition for a social work undergraduate student whose parents did not attend college.

Joyce Harper Laidlaw Scholarship in Child Welfare

The Laidlaw Scholarship, established by FSU alumna Joyce Harper Laidlaw and her husband Don, was first presented in 2003. It is for graduate students who have decided to focus their studies on child welfare.

M. Sharon Maxwell Ferguson Scholarship in Family Violence

Dr. Maxwell retired in 2006, after serving nearly two decades on the faculty of CSW and establishing the Institute for Family Violence Studies (IFVS). She is a nationally recognized expert in intimate partner violence and a champion of community-based services for survivors and their children. This scholarship is designed to encourage undergraduates to work with the IFVS and explore career opportunities designed to help end family violence.

C. Aaron McNeece Field Education Scholarship

Separate application required. Applications are available online and in the CSW field office, *2510 UCC*. The deadline is March 1st. For information, contact Katrina Boone at *kboone@fsu.edu* or call *(850) 644-4860* or *1 (888) 232-6416* (toll-free). Dr. McNeece retired in 2008 after serving on the CSW faculty for thirty years. He is internationally recognized for his work in chemical dependency and treatment for criminal offenders. He held various leadership positions at the College of Social Work and served as dean from 2004 to 2008. This scholarship named in his honor was established by the CSW Field Advisory Committee to provide assistance to graduate and undergraduate students during their internships.

Coyle and Mabel Moore Scholarship

Dr. Coyle Moore came to Tallahassee in 1928 to develop a course of instruction in social work at the Florida State College for Women (FSCW). When FSCW became a University in 1947, Dr. Moore was appointed dean of the School of Social Welfare. Mrs. Moore, who had a degree in social work from the University of North Carolina, was an active advocate of community service. This award, created in honor of Dr. and Mrs. Moore, supports full-time undergraduate and graduate students who demonstrate a commitment to the social work profession through strong character and service.

Sarah Sealey Morrill Scholarship

Mrs. Morrill graduated from the FSU School of Social Work in 1955 and was a pioneering activist who planned and established counseling and guidance services for children in Leon County. Later, she assumed leadership roles in planning and managing programs for the elderly. This scholarship serves as a tribute to Sarah Sealey Morrill's life-long commitment to community mental health services and is for undergraduate and graduate students specializing in community mental health.

MSW Class of '75 March Graduates Scholarship

The idea for this scholarship arose during a class reunion in March 2000, as attendees were sharing stories about their lives and they realized that FSU has had a defining influence on their successes. They created this award for full-time MSW students who are interested in community-based practice, advocacy, or public policy, with a demonstrated commitment to social justice concerns.

Bernhard Scher Undergraduate Scholarship

This scholarship, first presented in 1978, was established by the family of Dr. Scher. He served as dean of the School of Social Work from 1968–1973 and was a member of the faculty until his death five years later. The undergraduate recipient of this award demonstrates a strong commitment to social work values through actions and words.

Guy and Delores Spearman Scholarship

This scholarship was created by 1975 MSW Alumnus Guy Spearman and his wife to support exemplary undergraduate and graduate social work students who come to FSU from Brevard County, Florida. Mr. Spearman is well known as a legislative lobbyist and an enthusiastic supporter of FSU.

John P. and Jane W. Wakeman Memorial Scholarship for Arts in Social Work

This endowed scholarship has been established by Mary Wakeman in honor of her parents. It is for undergraduate or graduate students in the College of Social Work with an expressed interest in the study and practice of the arts in social work.

Victoria E. Warner Scholarship

This award was established to honor Dr. Victoria Warner, a long-time faculty member and chair of the Department of Social Work at Florida A & M University in Tallahassee. The scholarship is awarded to an MSW student who received a bachelor's degree from FAMU and intends to pursue a career working within the African-American community.

Patricia Vance Scholarship

Ms. Patricia V. Vance, MSW, "Pat" was the Associate Dean and served on faculty from 1966 to 1986 for the College of Social Work. Pat provided her gentle and thoughtful counsel with a tremendous level of support for students and other faculty members. She worked unstintingly to promote the profession of social work through her service and teaching. When she retired in 1986, she and her husband, Dr. Maurice Vance, established a scholarship for social work students to support their education. Upon Professor Kim Maddox's retirement, it is her wish to have this scholarship endowed.

Cheryl Roland Endowed Scholarship

This endowed scholarship was established by Cherie Roland, an alumna and a strong advocate for women. The award goes to a student with interest in women's studies and had the first recipient in 2013.

Dianne F. Harrison Scholarship

Created to honor former PhD Program Director and Dean, Dr. Harrison, this is a competitive award given to doctoral students with the best dissertation prospectus.

Lamar F. Everett Scholarship

This scholarship was established in 2009 as the result of a bequest from Mr. Everett's estate. The award is specifically earmarked to benefit economically disadvantaged and academically worthy undergraduate or graduate College of Social Work students.

Mary DiNitto Endowed Scholarship

Dr. Diana DiNitto established the Mary DiNitto Endowed Scholarship in honor of her mother's 90th birthday. This generous gift will provide support to students in the College of Social Work with strong interests in the profession and creative ideas for practice broadly defined. Preference will be given to students who exhibit financial need. An alumna and former faculty member of the College, Dr. DiNitto is the Cullen Trust Centennial Professor in Alcohol Studies and Education and Distinguished Teaching Professor at the University of Texas at Austin School of Social Work.

Violet Crook Scholarship

Opened in 2006 after Wendy Crook, a professor in the College of Social Work, created an endowment to support doctoral students in the college. Sadly, Dr. Crook passed away in 2007 prior to the pledge being fulfilled. At the passing of her mother in 2012, the scholarship was fulfilled to honor Wendy and her love for the college and social work.

John and Meg Paschal International Scholarship

The John and Meg Paschal Scholarship was created to provide support to social work students demonstrating integrity and passion for the profession, particularly in international settings, along with academic excellence and financial need.

Social Work Veterans Scholarship

This scholarship was created by 1975 MSW alumnus and veteran Guy Spearman and his wife Delores Spearman to support the military and the College of Social Work. The award is given to a post-graduate (current MSW or PhD) who was in the military, currently serving in the military, or who will be serving in the military after graduation.

Bill and Nolia Brandt Scholarship

Awarded to undergraduate or graduate students who are in good standing, are of high moral character, and have financial need. Students pursuing a dual MSW/MBA degree or the LEAD certificate are encouraged to apply.

Gomory Family Scholarship

Faculty members Dr. Tomi Gomory and Ms. Fran Gomory, MSW have created the Gomory Family Scholarship to be awarded to a student in the College of Social Work program that is an approved intern at the Leon County Homeless Shelter.

Christopher D. Hefren Child Welfare Endowed Doctoral Scholarship - Fund #8285

This scholarship will provide needed support to doctoral candidates whose primary research focus is in child welfare. The fund will serve as a lasting tribute to donor Judy Hefren's son Christopher.

UNDERGRADUATE ACADEMIC DEPARTMENTS AND PROGRAMS

Undergraduate Department of ACCOUNTING

College of Business

Website: *https://business.fsu.edu/departments/accounting/*
Chair: Richard Morton; **Professors:** Billings, Fennema, Morton, Paterson; **Associate Professors:** Bathke, Blay, Bozanic, Gerard, Mauler, Reynolds, Zhang; **Assistant Professors:** Ehinger, Keskek, Newton, Pierce, Romney, Zimmerman; **Senior Lecturers:** Greenberg, Sudano; **Teaching Faculty I:** Adams, Polinski, Wadlinger, Woodward; **Andersen Professor:** Fennema; **Deloitte Professor:** Paterson; **EY Professor:** Morton; **KPMG Professor:** Billings; **Denise Dickins Accounting Faculty Fellow:** Blay; **William Hillison Associate Professor:** Bozanic

The Department of Accounting is committed to providing students the general education and technical knowledge necessary to enter the accounting profession and to pursue a successful professional career. The field of accounting offers challenging and rewarding opportunities in public accounting, tax accounting, consulting, industry, government, and not-for-profit organizations.

Prospective accountants must be prepared to work in an increasingly complex environment. In addition to accounting knowledge, the successful accountant must possess a broad knowledge of business and an analytical mindset. Other essential skills include the ability to communicate well verbally and in writing, work well with and motivate others, organize and manage tasks and other people, and use sound professional judgment.

The Bachelor of Arts (BA) or the Bachelor of Science (BS) degree in accounting provides students with the knowledge of basic accounting concepts, accounting applications, and the related functional areas of business necessary for a successful accounting career in industry, government, and nonprofit organizations. Students preparing for a professional career in public accounting or tax accounting, and others who wish to obtain more advanced and specialized knowledge in the field of accounting, should also plan to complete the Master of Accounting (MAcc) program. The Master of Accounting program provides students with exposure to advanced theories and topics in the field of accounting. It offers an opportunity to pursue specialized interests and a broader knowledge of the accounting discipline in general. Completion of the BS program fulfills all educational requirements to sit for the CPA examination in the state of Florida and completion of the MAcc program satisfies the educational requirements to be licensed in the state of Florida and many other jurisdictions. In the MAcc program, students select a particular focus area from the three program options: Assurance and Advisory Services, Accounting–Generalist, and Taxation. The department also offers a combined BS/MAcc pathway that allows highly qualified undergraduate students the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MAcc degrees. A detailed description of the MAcc program can be found in the *Graduate Bulletin*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in accounting satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 (state mandated business prerequisite requirement) or CGS 2518.

Note: CGS 2518 is required for students in the Accounting Major and is a prerequisite for ACG 4401.

Required Risk in Business and Society Course

All undergraduates at Florida State University intending to enter a business major should complete RMI 2302, Risk in Business and Society, with a "C–" or better by the end of their sophomore year, but no later than their fifth mapping term.

Required Professional Development Course

All undergraduates entering Florida State University in Fall 2019 and later must complete a one-credit course in professional development, GEB 1030, with a "C–" or better by the end of their fifth mapping term. However, students are encouraged to complete the course by the end of their sophomore year to take full advantage of the material.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Accounting

1. ACG X021 or ACG X022, or ACG X001 and ACG X011
2. ACG X071or ACG X301
3. Note: ACG X071 will count toward the degree as elective credits for transfer students; however, it is recommended that native students take another non-accounting elective.
4. CGS X100 or demonstrated competency, or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
5. ECO X013
6. ECO X023
7. MAC X233 or MAC X230
8. STA X023 or STA X122 or QMB X100

Requirements for a Major in Accounting

All students must complete: (1) the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*; (2) the state of Florida common prerequisites for accounting majors; (3) the general business core requirements for accounting majors; (4) the general business breadth requirements for accounting majors; and (5) the major area requirements for accounting majors.

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue an accounting major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All accounting majors must complete the following five courses. A grade of "C–" or better must be earned in each course.

FIN	**3403**	Financial Management of the Firm (3)
GEB	**3213**	Business Communications (3)
ISM	**3541**	Introduction to Business Analytics (3)
MAN	**3240**	Organizational Behavior (3)
MAR	**3023**	Basic Marketing Concepts (3)

General Business Breadth

All accounting majors must complete the two courses as follows. Each course must be completed with a grade of "C–" or better.

FIN	**3244**	Financial Markets, Institutions, and International Finance Systems (3)
QMB	**3200**	Quantitative Methods for Business Decisions (3)

Capstone Course

All accounting majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a "C–" or better.

Major Area Requirements

All accounting majors must complete the nine courses listed below.

To enroll in the required upper-level accounting courses (those with ACG and TAX prefixes), students must have completed ACG 2021, Introduction to Financial Accounting and ACG 2071, Introduction to Managerial Accounting, with a grade of "B" or better ("B–" is not acceptable). Students must also pass an Accounting Competency examination with a grade of 75% or better. For students in the FSU ACG 2021 class, the Accounting Competency material is embedded in the course as a final exam. Students transferring ACG 2021 (or its acceptable equivalent) from another university must register for the FSU Accounting Competency Exam. Students will have one attempt to pass the competency exam. Students not receiving a 75% or better on the competency exam will be permitted to enroll in ACG 2021 at FSU. A grade of "C" or better ("C–" is not acceptable) in ACG 3101 is required to enroll in ACG 3111 or any 4000 level ACG or TAX course. A grade of "C–" or better must be earned in all other required upper-level courses. Any student not successful in obtaining the minimum passing grade within two attempts will not be permitted to enroll in that upper-level accounting course again.

ACG 3101 Financial Accounting and Reporting I (3)
ACG 3111 Financial Accounting and Reporting II (3)
ACG 3341 Cost Accounting (3)
ACG 4201 Financial Accounting and Reporting III (3)
ACG 4401 Accounting Information Systems (3)
ACG 4632 Auditing Theory and Application I (3)
BUL 3351 U.C.C. and Law for Accountancy (3)
TAX 4001 Federal Tax Accounting I (3)
TAX 4011 Federal Tax Accounting II (3)

Honors in the Major

The Department of Accounting offers honors in the major to encourage talented students to undertake independent and original research as part of the undergraduate experience. For requirements and other information see the "University Honors Office and Honor Societies" chapter of this *General Bulletin.*

Definition of Prefixes

ACG—Accounting: General
BUL—Business Law
CGS—Computer General Studies
GEB—General Business
TAX—Taxation

Undergraduate Courses

To register for any accounting course, students must have completed all prerequisite courses with appropriate grades.

ACG 2021. Introduction to Financial Accounting (3). This course offers an introduction to financial accounting concepts, placing emphasis on financial statements and how they reflect business transactions. Please note, Accounting Majors must earn at least a "B" in this course to proceed to required 3000 level accounting courses.

ACG 2071. Introduction to Managerial Accounting (3). Prerequisite: ACG 2021 with a grade of "C–" or better. This course offers an introduction to managerial accounting concepts. Please note, Accounting majors must earn at least a "B" in this course to proceed to required 3000 level accounting courses.

ACG 3101. Financial Accounting and Reporting I (3). Prerequisites: ACG 2021 and ACG 2071 with a grade of "B" or better; Students must also receive a grade of 75% or higher on FSU's ACG 2021 final exam or complete a competency exam with a score of 75% or higher. This course offers an in-depth study of financial-reporting concepts and generally accepted practice, including an overview of the accounting-cycle assets and noncurrent assets. Emphasis is placed on analyzing financial events and the consequences of financial-reporting alternatives.

ACG 3111. Financial Accounting and Reporting II (3). Prerequisite: ACG 3101 with a grade of "C" or better. This course offers an in-depth study of financial-reporting concepts and generally accepted practice for long-term liabilities, leases, pensions, income taxes, and stockholder equity and earnings per share. Emphasis is placed on analyzing financial events and the consequences of financial-reporting alternatives on financial statements.

ACG 3171. Analysis of Financial Statement Presentation (3). Prerequisite: ACG 2021 with a grade of "C–" or better. This course is intended to provide students with tools needed to evaluate the content of financial statements and accompanying disclosures. This is achieved by students developing an understanding of generally accepted accounting principles (GAAP) and their application.

ACG 3331. Cost Accounting and Analysis for Business Decisions (3). Prerequisite: ACG 2071 with a grade of "C–" or better. This course studies techniques of cost accounting and cost analysis for various business decisions. Credit not allowed for accounting majors.

ACG 3341. Cost Accounting (3). Prerequisites: ACG 2021 and ACG 2071 with a grade of "B" or better; FSU's ACG 2021 final exam with a grade of 75% or higher or complete a competency exam with a score of 75% or higher; QMB 3200 completed with a "C-" or higher, or taken as a corequisite. This course covers the planning and control of economic entities through cost-volume-profit relationships, job order, as well as process and standard cost accounting. Emphasis is placed on the relationship between accounting systems and decision making.

ACG 3949. Experiential Learning (0). (S/U grade only.) This non-credit, experiential learning course offers students an opportunity to gain "real world" on-the-job work experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

ACG 4201. Financial Accounting and Reporting III (3). Prerequisite: ACG 3111 with a grade of "C–" or better. This course offers an in-depth study of financial reporting concepts and generally accepted practice for investments, business combinations, consolidated enterprises, foreign operations, and the statement of cash flows. Emphasis is placed on analyzing financial events and the consequences of financial reporting alternatives.

ACG 4401. Accounting Information Systems (3). Prerequisites: ACG 3101 with a grade of "C" or better and CGS 2518. This course is an introduction to manual and computerized accounting information systems. Transaction cycles, internal controls, and flowcharting are emphasized.

ACG 4632. Auditing Theory and Application I (3). Prerequisites: ACG 3111 and ACG 4401 with grades of "C–" or better. This course covers legal and professional responsibility of CPAs; generally accepted auditing standards; audit programs, procedures, and evidence; review and evaluation of internal controls.

ACG 4642. Auditing Theory and Application II (3). Prerequisite: ACG 4632 with a grade of "C-" or better. This course covers theory of auditing and development of audit programs; sampling; procedures of obtaining audit evidence; auditor responsibility under Securities and Exchange Commission requirements; and auditing computerized systems. Subsequent credit for ACG 5635 is not permitted.

ACG 4682. Investigative Accounting (3). Prerequisite: ACG 3101 with a grade of "C–" or higher. This course provides an introduction to issues in forensic accounting. Topics include criminal statutes related to financial crimes, techniques used in solving financial crimes, rules of evidence, interviewing techniques, and forensic accounting procedures.

ACG 4901r. Directed Individual Study (1–3). May be repeated to a maximum of five semester hours.

ACG 4930r. Special Topics in Accounting (1–3). Prerequisite: Instructor permission. This course content varies to provide an opportunity to study current issues in accounting and topics not offered in other courses. May be repeated to a maximum of twelve semester hours as content changes.

ACG 4941. Accounting Internship (3). (S/U grade only.) Prerequisite: ACG 4632 and TAX 4001. This accounting internship is designed for College of Business students who desire to gain real-world experience in the accounting field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor, and the internship director.

ACG 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. Six semester hours of thesis are required to complete honors in the major. May be repeated to a maximum of nine semester hours.

CGS 2518. Spreadsheets for Business Environments (3). This course provides an in-depth study of spreadsheets utilizing a problem-solving approach. Spreadsheet-based solutions are explored for common business tasks and problems. The course presents a thorough coverage of spreadsheet functions and tools, along with a deep understanding of their purpose in a business environment. The course is ideal for students with professional interests related to business and economics, as well as for students wishing to obtain a deeper understanding of spreadsheets in general.

GEB 3934. Global Accounting Seminar (3). (S/U grade only.) This course provides students with the "soft skills" critical for success in the accounting profession. Students spend time on campus during the Spring semester studying a variety of topics to help facilitate the transition from college life to the professional world. During spring break, students travel abroad to gain a global perspective of the business world.

TAX 4001. Federal Tax Accounting I (3). Prerequisite: ACG 3101 with a grade of "C" or better. This course covers concepts and methods of determining income of individuals for tax purposes, as well as the interpretation of Internal Revenue Code, related regulations, and tax advisory services.

TAX 4011. Federal Tax Accounting II (3). Prerequisite: TAX 4001 with a grade of "C–" or better. This course covers concepts and methods of determining income of corporations, partnerships, estates, and trusts for tax purposes, as well as the interpretation of Internal Revenue Code, related regulations, and tax advisory services. Subsequent credit for TAX 5015 is not permitted.

Graduate Courses

ACG 5026. Financial Reporting and Managerial Control (3).
ACG 5065. Fundamentals of Accounting and Finance (3).
ACG 5135. Financial Accounting Theory and Standard Setting (3).
ACG 5175. Financial Statement Analysis (3).
ACG 5216. Advanced Accounting (3).
ACG 5356. Advanced Management Accounting (3).

ACG 5405. Advanced Accounting Information Systems (3).
ACG 5458. Emerging Technologies in Accounting and Auditing (3).
ACG 5466. Enterprise Systems and Accounting (3).
ACG 5505. Government and Not-for-Profit Accounting and Auditing (3).
ACG 5635. Auditing Theory and Application II (3).
ACG 5685. Forensic Accounting (3).
ACG 5695. Challenges in Professional Accounting (3).
ACG 5905r. Directed Individual Study (1–3). (S/U grade only.)
ACG 5906r. Special Studies in Management (1–3).
ACG 5915r. Supervised Research (1–3). (S/U grade only.)
ACG 5935r. Special Topics in Accounting (1–3).
ACG 5945r. Supervised Teaching (1–3). (S/U grade only.)
ACG 6696. Seminar in Financial and Auditing Research (3).
ACG 6835. Seminar in Behavioral Accounting Research (3).
ACG 6885. Introduction to Accounting Research (3).
ACG 6896. Seminar in Capital Market–Based Accounting Research (3).
ACG 6916r. Supervised Research (1–5). (S/U grade only.)
ACG 6939r. Seminar in Accounting (3).
ACG 6946r. Supervised Teaching (1–3). (S/U grade only.)
BUL 5335. Law for Accountancy (3).
GEB 5086r. Professional Development (1–3). (S/U grade only.)
GEB 5907r. Special Studies in Business (1–3).
GEB 6904r. Readings for Examination (1–12). (S/U grade only.)
TAX 5005. Taxes and Business Strategy (3).
TAX 5015. Federal Income Tax Accounting II (3).
TAX 5065. Research in Federal Taxation (3).
TAX 5105. Seminar in Corporate Income Taxation (3).
TAX 5205. Pass-Through Entities and Fiduciaries (3).
TAX 5405. Seminar in Federal Taxation of Estates and Gifts (3).
TAX 5527. Multijurisdictional Tax Issues (3).
TAX 5875r. Special Topics in Taxation (1–3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Program in ACTUARIAL SCIENCE

College of Arts and Sciences

Website: *https://www.math.fsu.edu/~paris/actmath.math*
Coordinator: Steve Paris (Mathematics); **Advisory Committee:** Kercheval (Mathematics); Beaumont, Benson (Economics); Whalley (Computer Science); Born (Risk Management/Insurance); Gatzlaff, Maroney (Risk Management/Insurance, MBA); Chicken, Huffer (Statistics); Icerman (Accounting); Christiansen (Finance)

This interdisciplinary degree provides broad instruction in the mathematical and statistical concepts underlying the operations of life, property, and casualty insurers; governmental regulatory agencies; pension and insurance consulting firms; and financial firms. Along with strong mathematical and computational skills and a solid grounding in each of the component disciplines, the program is designed to enhance leadership ability and communications skills. The program is also flexible enough to provide background for graduate or professional study in many areas beyond actuarial science, e.g., business, economics, finance, law, and statistics. The program is classified by the professional actuarial societies as advanced undergraduate and graduate education and research. All three of the actuarial professional societies' Validation by Educational Experience credit areas are approved; this provides FSU students an opportunity to directly advance their careers through their regular classes.

Students in the program are also assisted in moving forward professionally through seminars and tutorials in preparation for national actuarial examinations and by guest lecturers who are actuaries discussing the varied available employment.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in actuarial science satisfy this requirement by earning a grade of "C–" or higher in COP 3014 or ISC 3313.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Actuarial Science

1. COP XXXX: a scientific programming course for three credit hours designed for computer science majors
2. ECO X013
3. ECO X023
4. MAC X311
5. MAC X312
6. MAC X313

Note: A "C" grade or better in all coursework is required for admission.

For curriculum information, please see the "Department of Mathematics" chapter in this *General Bulletin* and the departmental Web site at *http://www.math.fsu.edu*.

ADULT EDUCATION:
see Educational Leadership and Policy Studies; Educational Psychology and Learning Systems

ADVERTISING:
see Communication

AEROSPACE ENGINEERING:
see Mechanical Engineering

Undergraduate Department of AEROSPACE STUDIES

Air Force ROTC
College of Arts and Sciences

Website: *http://airforcerotc.fsu.edu/*
Professor: Colonel Rodney Singleton

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve on active duty as commissioned officers in the United States Air Force. The department offers pre-commissioning education programs which vary in length from three to four years. The programs consist of academic courses, leadership laboratories, physical fitness training, and a field training experience which supplement students' primary courses of study. Additionally, students have the opportunity to participate in professional development training during the summer at various locations throughout the world. Upon successful completion of the program, students will commission as Second Lieutenants in the United States Air Force. The Aerospace Studies curriculum is divided into two phases: (1) the General Military Course (GMC); and (2) the Professional Officer Course (POC). Entry into the POC is done on a competitive basis. To obtain specific information, please e-mail the Department of Aerospace Studies at *det145@us.af.mil*, visit us at *Florida State University, 212 Harpe-Johnson Hall, Tallahassee, FL 32306-4270*, call *(850) 644-3461*, or view our Web page at *http://airforcerotc.fsu.edu/*.

Note: Students not currently enrolled in the Air Force Reserve Officer Training Corps (AFROTC) program must have the permission of the department chairman prior to enrolling in any AFR course. Class enrollment size is limited, and priority will be given to FSU, FAMU, TCC, and ERAU students seeking a commission in the Air Force and needing AFR courses. Non-AFROTC program students are not eligible for scholarships, incentive pay, or stipends as a result of enrollment in AFROTC program courses.

General Military Course

This program of instruction is open to any student and consists of the AFR 1101, AFR 1102, AFR 2130, and AFR 2140 courses in the AFROTC program. These courses deal with the Air Force structure and the development of air power. They strengthen interest in becoming a professional Air Force officer, develop knowledge of world military forces, and enable the student to understand how the United States Air Force supports national objectives and policies. Class enrollment size is limited, and priority will be given to FSU, FAMU, TCC, and ERAU students enrolled in the AFROTC program.

Professional Officer Course

Entry into the POC courses is done on a competitive basis and consists of the AFR 3201, AFR 3202, AFR 4211, and AFR 4212 courses. The criteria for entry/selection into the POC courses are listed below. Completion of the POC is required by all students who seek a commission through AFROTC. These courses are designed to prepare college students to serve as active duty Air Force officers upon graduation and commissioning. The curriculum stresses national security in contemporary American society, leadership, management, and professionalism. Special emphasis is placed on developing the cadet's communication skills. Students not currently enrolled in the AFROTC program must have permission of the department chairperson prior to enrolling in these courses. Class enrollment size is limited, and priority is given to those FSU, FAMU, and ERAU students enrolled in the AFROTC program.

Required Criteria for Admission into the POC

1. Pass a military physical examination
2. Pass a physical fitness test
3. Pass height/weight standards
4. Have a 2.5 cumulative GPA or higher for undergraduates or a 3.0 cumulative GPA or higher for graduate students
5. Compete favorably with students enrolled in AFROTC programs throughout the nation
6. Sign a contract obligating the student to military service upon completion of the AFROTC program.

Note: Call the Department of Aerospace Studies *(850) 644-3461* for specific requirements.

Leadership Laboratory

Leadership Laboratory (LLab) is required for members of the AFROTC program. LLab is the formalized phase of leadership training conducted by

the students. Students in the POC plan and conduct all activities associated with LLab, providing these students the opportunity to develop fundamental leadership and management skills. For students in the GMC, LLab focuses on the topics of Air Force customs and courtesies, health and physical fitness, and drill and ceremonies. All uniforms and equipment required for cadet activities are furnished. Leadership Laboratory is graded as a pass/fail course. Students must attend at least 80% of the class sessions in addition to 80% of the Physical Training sessions to receive a passing grade.

Physical Training

All students enrolled in the AFROTC program will participate in Physical Training (PT) at least three days per week (for a total of no more than three hours per week). PT will consist of various forms of exercise, to include running, calisthenics, plyometrics, sports, etc. A Department of Defense Medical Examination Review Board (DoDMERB) physical or sports physical is required prior to participation.

Monetary Allowances

All students selected for entry into the POC will receive a monthly, tax-exempt stipend ranging from $300.00–$500.00.

AFROTC College Scholarship Programs

The opportunity to earn a scholarship is possible, but not guaranteed. Scholarships are awarded on a competitive basis. Go to *http://www.afrotc.com* for current information or contact the Department of Aerospace Studies at *(850) 644-3461*.

Field Training

Students are required to attend a field training course before they may formally enroll in the POC. Field training is designed to evaluate military leadership and discipline, determine students' potential for entry into the POC, and stratify students among their peers. All uniforms and equipment required for field training are furnished.

Officer Commissions

Upon graduation from the University, students who complete the POC are commissioned as Second Lieutenants in the United States Air Force. As graduates they incur a minimum active duty service commitment of four years. Graduates chosen for entry into select Air Force Specialty Codes (AFSC) (e.g. pilots, combat systems officers, etc.) will incur additional years of active duty service commitment. For more information on active duty service commitments, contact the Department of Aerospace Studies at *(850) 644-3461*.

Minor

A minor in aerospace studies is offered and may be selected by the student with the approval of the major department and the Department of Aerospace Studies. Requirement for a minor is twelve semester hours in aerospace studies courses.

Oral Communications Competency

Florida State University requires students to demonstrate competency in oral communications prior to graduation. Students who meet the specific criteria below may be awarded the competency through AFR courses.

1. Student must earn a "C–" or better in each of the following courses: AFR 1101, AFR 1102, and AFR 2130.
2. Student must earn a "C–" or better on the verbal presentation portion of the three AFR courses listed above.

Apply for oral communications competency credit through the Department of Aerospace Studies. Students must apply for credit prior to completion of the last of the three required courses listed above. Students should be advised that application alone does not guarantee credit toward the completion of the oral communication competency requirement will be awarded. All applications must be reviewed, and if all guidelines have been met, the University will be notified the requirement for competency has been met.

Special Activities

Special activities provide for the development of teamwork and esprit-de-corps. Included are the Arnold Air Society, a national honorary organization, and Silver Wings, a community service oriented organization open to all students.

Awards and Decorations

Awards and decorations, made available by national organizations, Florida State University, and local/national military organizations, are presented to both GMC and POC cadets each year. These plaques, trophies, medals, and ribbons symbolize superior achievement in AFROTC and other University academic courses and in outstanding campus and cadet corps leadership.

Definition of Prefix

AFR—Aerospace Studies

Undergraduate Courses

Note: All courses have a minimum 80% attendance requirement to receive a passing score. Failure to meet the attendance requirement will result in an overall failing grade for the course.

AFR 1101. Foundations of the Air Force I (1). This survey course briefly covers topics relating to the Air Force and defense. It focuses on the structure and mission of Air Force organizations, officership and professionalism. Additionally, the course is a good introduction into the use of communication skills.

AFR 1102. Foundations of the Air Force II (1). This course is a continuation of AFR 1101.

AFR 2130. The Evolution of Aerospace Studies I (1). This course is a survey course concerned with the beginnings of manned flight and the development of aerospace power in the United States, including the employment of air power in WWI, WWII, Korea, Vietnam, the Gulf War and the peaceful employment of U.S. air power in civic actions, scientific missions and support of space exploration.

AFR 2140. Evolution of Aerospace Studies II (1). This course is a continuation of AFR 2130.

AFR 2233L. AFROTC Leadership Lab (0). (S/U grade only.) This course is a weekly laboratory that touches on the topics of Air Force customs and courtesies, health and physical fitness, drill and ceremonies. It also provides the opportunity to develop fundamental management skills while planning and conducting cadet activities.

AFR 3201. Leadership Studies I (3). Prerequisite: AFR 2140. This course is a study in the anatomy of leadership, the need for quality and management leadership, the role of discipline in leadership situations and the variables affecting leadership. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts. Students deal with actual problems and complete projects associated with planning and managing the Leadership Laboratory.

AFR 3202. Leadership Studies II (3). This course is a continuation of AFR 3201.

AFR 4211. National Security Studies and Preparation for Active Duty I (3). Prerequisite: AFR 3202. This course examines the role of the professional military leader in a democratic society; societal attitudes toward the armed forces; the requisites for maintaining adequate national defense structure; the impact of technological and international developments on strategic preparedness and the overall policy-making process; and military law. In addition, students study topics that prepare them for their first active-duty assignment as an officer in the Air Force.

AFR 4212. National Security Studies and Preparation for Active Duty II (3). Prerequisite: AFR 4211. This course is a continuation of AFR 4211.

Note: If stated prerequisites are not met, permission of the professor of aerospace studies is prerequisite to all courses.

Undergraduate Program in AFRICAN AMERICAN STUDIES

College of Social Sciences and Public Policy

Website: *http://www.coss.fsu.edu/aas/*
Director: Dr. Patrick L. Mason

African American Studies is an interdisciplinary program that offers two major tracks and a minor. Located in the College of Social Sciences and Public Policy, the program utilizes faculty from several departments within and beyond the College. African American Studies offers students the opportunity to understand American society and the international arena from the unique vantage point of the African Diaspora, most especially Americans of African descent.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in African American Studies satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

Requirements for a Minor in African American Studies

A total of eighteen (18) credit hours are required for the minor, which consists of nine (9) credit hours from the African American Studies core courses, three (3) credit hours of African or African American history, and six (6) credit hours of supplementary courses. A 2.0 GPA average in African American Studies course requirements is required, and students will not receive credit toward the minor requirements for courses in which grades less than "C–" have been received. The nine hours of African American Studies core courses must include:

3 hours of AFA 2000 Introduction to the African-American Experience

3 hours of AFA 3101 Theories of African American Studies

3 hours of AFA 3330 Black Families in America **or** AFA 3930 Africana Diasporic Experience (Special Topic)

Requirements for a Major in African-American Studies

African American Studies Major: A minimum of thirty-six (36) hours of coursework is required within the major. Students may not overlap more than 6 hours of coursework used to satisfy General Education requirements with courses used to fulfill major requirements. Students pursuing a Double Major or a Dual Degree may overlap up to 6 hours with another major. Students must select one of three specialty areas: 1) Social Sciences, 2) Literature and Arts, or 3) History, Religion, and Philosophy. In each case, the student selects fifteen (15) hours from African American Studies core courses, six (6) hours of African and/or African American history, plus fifteen (15) hours of elective courses from a chosen specialty area and related supplemental courses. A 2.0 GPA average in African American Studies course requirements is required, and students will not receive credit toward the major requirements for courses in which grades less than "C–" have been received. A minimum of eighteen (18) semester hours in African American Studies major courses must be taken at Florida State University. With the director's approval, courses offered at Florida A&M University that are not offered at FSU may be used to fulfill the requirements for the African American Studies major.

Students may choose to obtain either a Bachelor of Arts (BA) degree or a Bachelor of Science (BS) degree. Students choosing to complete a Bachelor of Arts degree are required to demonstrate proficiency in French, Spanish, Portuguese, or Arabic through the intermediate (2220) level, as well complete 9 hours of humanities or history courses beyond those used to satisfy general education requirements.

1. Core Course Requirements

Completion of fifteen (15) hours in African American Studies core courses.

A. Three required courses (9 hours):

- AFA 2000 Introduction to the African American Experience
- AFA 3101 Theories of African American Studies
- AFA 3930 Research Methods and Scholarly Writing in Africana Studies (Special Topic)

B. One of the following experiential courses (3 hours):

- AFA 3330 Black Families in America **or**
- AFA 3930 Africana Diasporic Experience (Special Topic)

C. One of the following research/service learning courses (3 hours):

- AFA 3930 Senior Capstone Thesis (Special Topic) **or**
- AFA 3930 Practicum/Internship (Special Topic)

2. History Requirement

Completion of six (6) hours in African and/or African American history courses.

- AMH 1091 African American Experience in the United States
- AMH 2096 Black Women in America
- AMH 2097 Nationality, Race, and Ethnicity in America
- AMH 4571 Black America to 1877
- AMH 4572 Black America Since 1877
- AMH 4684 Women and Children in the Civil Rights Movement
- HIS 4930 Special Topics in History (Black History through Film)
- LAH 4470 History of the Caribbean
- LAH 4723 Race and Class in Colonial Latin America

3. Social Science Specialty

Completion of nine (9) hours of required courses from the list below and six (6) hours of supplementary African American Studies or supplementary social sciences courses.

A. Three required courses chosen from any classes in the Social Science topic areas below (9 hours):

1. Political Economy and the Black Community:
   - AFA 3330 Black Families in America
   - AFA 4930 (Special Topics) **or** ECS 4431 Economics of the Caribbean
   - AFA 4930 (Special Topics) **or** ECP 3143 African Americans & the US Economy
   - GEO 4404 Black Geographies
   - POS 4070 Race, Ethnicity, and Politics
   - POS 4624 The Supreme Court, Civil Liberties, and Civil Rights
2. Culture, Institutions, and Policy:
   - AFA 3930 Africana Diasporic Experience (Special Topic)
   - AFA 3930 Black Political Thought and Social Movements (Special Topic)
   - AFA 3930 Culture, Land, and Ecology: A Seminar In Black Environmental History and Politics (Special Topic)
   - SOP 3782 Psychology of the African-American
   - SYD 4700 Race and Minority Group Relations
3. Race and Justice:
   - CCJ 3673 Social Reality of Black Males
   - CCJ 3678 Policing Diversity: Race, Gender, Religion, and Crime
   - CCJ 4662 Minorities, Crime, and Social Policy
   - CCJ 4938 (Special Topics) Seminar on Racial Profiling
   - CCJ 4938 (Special Topics) Seminar on Black Males

B. Two courses chosen from the African American Studies or Social Sciences sections of the Supplementary Course list (6 hours)

4. Literature and Arts Specialty

Completion of nine (9) hours of required courses from the list below and six (6) hours of supplementary African American Studies or humanities courses.

A. Three required courses (9 hours):

- ARH 2630C Survey in African-American Art and Aesthetics
- ARH 3515 History of African Art
- ARH 4933 Special Topics (African Diaspora)
- AML 2600 Introduction to African-American Literature
- AML 3682 American Multi-Ethnic Literature
- AML 4604 The African-American Literature Tradition
- LIT 4329 African American Folklore
- DAN 3185 African American Perspectives on Dance
- MUH 4531 African Soundscapes
- MUH 4801 History of Jazz (1890–1950)
- MUH 4802 History of Jazz (1950–Present)
- THE 4233 History of African-American Drama
- THE 4433 Gender, Race and Performance
- THE 4438 African Theatre Performance

B. Two courses chosen from the African American Studies or Humanities sections of the Supplementary Course list (6 hours)

5. History, Religion, and Philosophy Specialty

Completion of nine (9) hours of required courses and six (6) hours of supplementary African American Studies or humanities courses.

A. Three required courses (9 hours):

- AMH 1091 African American Experience in the United States
- AMH 2096 Black Women in America
- AMH 2097 Nationality, Race, and Ethnicity in America
- AMH 4571 Black America to 1877
- AMH 4572 Black America Since 1877
- AMH 4684 Women and Children in the Civil Rights Movement
- HIS 4930r Special Topics in History (Black History through Film)
- LAH 4470 History of the Caribbean
- LAH 4723 Race and Class in Colonial Latin America
- PHM 2121 Philosophy of Race, Class and Gender
- REL 3128 Special Topics in American Religion (African American Religious Experience)
- REL 3152 Religion, Race, and Ethnicity
- REL 3370 Religion in Africa
- REL 3936r Special Topics in Religion (Ecstatic Religions)
- REL 4190r Undergraduate Seminar (Religion and the Civil Rights Movement)

B. Two courses chosen from the African American Studies or Humanities sections of the Supplementary Course list (6 hours)

Supplementary Course List

I. African American Studies

AFA 3330 Black Families in America

AFA 3930 Special Topics (Africana Diasporic Experience; Black Political Thought and Social Movements; Culture, Land, and Ecology: A Seminar in Black Environmental History and Politics)

II. Social Sciences

Anthropology

ANT 2534 Race: Bio and Culture

ANT 4352 Peoples and Culture of Africa

Communications

SPC 4710 Interracial/Intercultural Communication

Criminology

CCJ 3673 Social Reality of Black Males

CCJ 3678 Policing Diversity: Race, Gender, Religion, and Crime

CCJ 4662 Minorities, Crime, and Social Policy

CCJ 4938 Racial Profiling

CCJ 4938 Seminar on Black Males

Economics

ECP 3143 African Americans and the American Political Economy

ECS 4431 Economics of the Caribbean

Geography

GEO 4404 Black Geographies

Political Science

CPO 3034 Politics of Developing Areas

POS 4070 Race, Ethnicity, and Politics

POS 4624 The Supreme Court, Civil Liberties, and Civil Rights

PUP 4024 Interest Groups, Social Movements, and Public Policy

Psychology

SOP 3782 Psychology of the Afro-American

SOP 4722 Prejudice and Stereotyping

Sociology

IDS 2339 The Boundaries Between Us: Exploring Racial Inequality in the U.S.

IDS 3430 Sociology of Hip Hop Culture

SYD 4700 Race and Minority Group Relations

SYD 4730 African Americans in Modern Society

Urban and Regional Planning

URP 5059 Community Involvement and Public Participation

URP 5445 Climate Change and Community Resilience

URP 5743 Neighborhood Planning

URP 5749 Affordable Housing Development

III. Humanities Courses

Art History

ARH 2630C Survey in African American Art and Aesthetics

ARH 3515 History of African Art

ARH 4118 Archaeology of Ancient Egypt

ARH 4933 Special Topics in Art History (African Diaspora)

Dance

DAA 1500 Special Topics (Dances of the Caribbean)

DAA 1500 Special Topics (Hip Hop)

DAN 3185 African American Dance

DAN 4935 Special Topics (Dances of African Diaspora)

History

AMH 1091 African American Experience in the United States

AMH 2096 Black Women in America

AMH 2097 Nationality, Race, and Ethnicity in America

AMH 4571 Black America to 1877

AMH 4572 Black America Since 1877

AMH 4684 Women and Children in the Civil Rights Movement

HIS 4930r Special Topics in History (African American History through Film)

LAH 4470 History of the Caribbean

LAH 4723 Race and Class in Colonial Latin America

Literature

AML 2600 Introduction to African-American Literature

AML 3682 American Multi-Ethnic Literature

AML 4604 African American Literature Tradition

LIT 4233 Anglophone Postcolonial Literature

LIT 4329 African American Folklore

Music

MUH 4531 African Soundscapes

MUH 4801 History of Jazz: 1890–1950

MUH 4802 History of Jazz: 1950–Present

MUN 2800 World Music Ensemble (FSU Gospel Choir, Blues Lab)

MUN 4903 World Music Ensemble (FSU Gospel Choir, Blues Lab)

Philosophy

PHM 2121 Philosophy of Race, Class, and Gender

Religion

REL 3128 Special Topics in American Religion (African American Religious Experience)

REL 3152 Religion, Race, and Ethnicity

REL 3370 Religion in Africa

REL 3936r Special Topics in Religion (Ecstatic Religions)

REL 4190r Undergraduate Seminar (Religion and the Civil Rights Movement)

Theatre

THE 4233 History of African American Drama

THE 4433 Gender, Race, and Performance

THE 4438 African Theatre Performance

Definition of Prefix

AFA—African-American Studies

Undergraduate Courses

AFA 1003. Diversity and Justice (1). This course integrates African authors, pre- and post-Apartheid, to demonstrate the problems of living in a diverse world. It fosters awareness and acceptance of people different from students through the study of African-American culture, and stimulates an appreciation and respect for people of all cultures.

AFA 2000. Introduction to the African-American Experience (3). This course is an interdisciplinary examination of African-American culture and socio-economic status. This course also explores elements of the African Diaspora.

AFA 3101. Theories of African American Studies (3). This course engages theories of race discrimination and oppression as it relates to African Americans. Students systematically and objectively examine the sources of American oppression and explore how it shapes the life chances of African Americans from prior to the Reconstruction Era to the twenty-first century. The course explores the timing and manner of their entry into U.S. society, conflicts with other groups, encounters with prejudice and discrimination, as well as the extent to which they have secured access to cultural, economic, political, and social assimilation into U.S. society.

AFA 3330. Black Families in America (3). This course explores the social, economic, and cultural forces that have shaped the development of African-American families. In examining historical and contemporary transitions in the structure and functioning of African-American families, special emphasis is given to the bifurcation in the distribution of wealth and power in American society, as well as the role of racial stratification. The course also seeks to empirically examine contemporary policy and political debates on crucial issues confronting African-American families.

AFA 3930r. Special Topics (1–3). This course varies with instructor and semester. May be repeated to a maximum of nine semester hours.

AFA 4007. Black Political Thought & Social Movement (3). This course is a critical introduction to Africana political thought and social movements with an emphasis on the African-American experience. The course is a comprehensive exploration of Africana political history, ideology and political practice.

AFA 4240. African Diaspora (3). This course examines the experiences of Afro-descendant populations around the world in the wake of the trans-Atlantic slave trade. The course focuses on the ways in which Afro-descendant peoples outside of Africa understand and negotiate the lives and the global effects of Blackness.

AFA 4358. Culture, Land, and Ecology: A Seminar in Black Environmental History and Politics (3). This course explores the ways that communities of African descent have understood and related to the earth. Specific emphasis is placed on how this understanding and relationship has changed over time due to the socio-historical forces of westernization, capitalism, slavery, colonialism, industrialization, and urbanization.

AFA 4905r. African American Studies Directed Individual Study (1–3). Course topics vary by each student. May be repeated to a maximum of nine (9) credit hours; repeatable within the same term.

AFA 4940r. African American Studies Internship (3–6). This course builds on the African American Studies curriculum to provide a solid foundation for subsequent applied work in this interdisciplinary field. As students near the completion of formal course work, an internship in the field affords the opportunity to put what was learned to practical use in applied settings, and to develop professional skills and competencies. May be repeated to a maximum of six (6) credit hours.

AFRICAN HISTORY:
see African-American Studies; History

Undergraduate Department of ANTHROPOLOGY

College of Arts and Sciences

Website: *http://www.anthro.fsu.edu/*
Chair: Marrinan; **Professor:** Falk; **Associate Professors:** Marrinan, Peres, Peters; **Assistant Professors:** Halligan, Leppard, Mehta; **Specialized Faculty:** Kowal, Thomas; **Professors Emeriti:** Doran, Pohl; **Courtesy Professors:** Hellweg, Joos, Pullen

The department offers undergraduate degrees in anthropology. Anthropology investigates humankind in all its diversity. It includes the study of human origins, physical characteristics, adaptations, distributions, customs, artifacts, languages, beliefs, and practices. Anthropologists divide their work among four sub-disciplines. Archaeologists study material objects left behind by prehistoric and historic peoples and document stability and change in human behavior over long time periods. Physical (biological) anthropologists study the fossil record of human and pre-human evolution, primate ecology and behavior, comparative anatomy, osteology and genetics, forensics, medical anthropology, human variation, and the evolutionary origins of human cognition and culture. Cultural anthropologists live among and study contemporary peoples; their social institutions; their history; their political, religious, and medical practices; and the creative products of their social lives. Anthropological linguists study the evolution and structure of human language and the relationships between language, culture, and society.

The undergraduate offerings in anthropology include survey courses to give liberal studies students an introduction to human diversity and behavior, and upper division courses for advanced students with specialized interests. The department provides a rigorous course of study intended to prepare students for graduate study in any one of the subfields of anthropology. The courses also provide a science-based liberal arts education to students wishing to pursue other professional degrees such as law or medicine (with additional coursework) and to those students who may not wish to pursue graduate studies. Students with a heavy anthropology background often develop careers in areas of public policy, cultural resource management, public health, women's studies, museum studies, and other areas where practical approaches contribute to providing workable solutions to human problems.

The department also participates in the undergraduate programs in Latin American and Caribbean studies, Middle Eastern studies, and in the honors in the major program. For further information on the program and its offerings, please visit *http://www.anthro.fsu.edu*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Anthropology satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Anthropology

1. ANT XXXX: two introductory anthropology courses (ANT prefix) for six credit hours

Requirements for a Major in Anthropology

To complete a BA or BS degree with a major in anthropology, a student must take, in addition to other college requirements, thirty semester hours of anthropology courses, including the following: ANT 2100, 2410, 2511, 3610, 4034, and fifteen additional semester hours of anthropology coursework at the 3000–4000 level. No more than three semester hours of credit in fieldwork courses and no hours of directed individual study (DIS) or satisfactory/

unsatisfactory (S/U) credits may be used to meet the specific requirement of fifteen semester hours of work at the 3000–4000 level, except upon approval of a petition to the department chair. LIN 4030 and LIN 4040 may be counted as equivalents of courses designated as ANT for purposes of completing the undergraduate major requirement of thirty semester hours in the department, but no more than three semester hours of LIN courses will be counted toward completion of the specific requirement of fifteen semester hours of work at the 3000–4000 level. No anthropology course for which the student receives a grade below "C–" may be counted toward satisfaction of the major requirements.

Requirements for a Minor in Anthropology

Twelve semester hours in anthropology, including either ANT 2410 or ANT 2511, are required. Courses in which a student receives a grade below "C–" will not be counted toward the minor.

Definition of Prefixes

ANG—Anthropology: Graduate
ANT—Anthropology
IDS—Interdisciplinary Studies
LIN—Linguistics

Undergraduate Courses

ANT 2000. Introduction to Anthropology (3). This introductory course offers a holistic approach to understanding what it means to be human, studying humans and human behavior from the perspectives of evolution and genetics, the archaeological record, and language and culture.

ANT 2100. Introduction to Archaeology (3). This course is an introduction to modern anthropological archaeology. The course introduces students to the interdisciplinary scientific approaches employed in contemporary archaeological research and provides them with an overview of the origins and evolution of human social and economic systems.

ANT 2100L. Introduction to Archaeology Laboratory (1). Corequisite: ANT 2100. This course is conducted as a hands-on laboratory in archaeological methodology. Each week, students have a series of laboratory exercises designed to teach specific analytical techniques, including: paleozoological analysis, paleobotanical analysis, geophysical prospecting techniques, and GIS.

ANT 2138. World's Greatest Shipwrecks (3). This course provides an introduction to the field of nautical archaeology through the excavation and exploration of ships and boats from 5000 years ago in ancient Egypt to the U.S.S. Yorktown of WWII. From Titanic to treasure ships, this global survey explores economy, technology, and society.

ANT 2301. Evolution of Human Sexuality (3). This course is an examination of human sexuality from an evolutionary perspective. Some of the topics covered include sexual selection, mating systems, mate preferences, and sexual orientation.

ANT 2410. Introduction to Cultural Anthropology (3). This course introduces the origin and development of human lifeways with emphasis on non-Western societies. A comparative perspective is used to examine language, social organization, religion, values, and technology. Attention is also given to contemporary world problems.

ANT 2416. Childhood Around the World (3). This course examines the variety of ways childhood is experienced in other cultures, allowing students without a background in anthropology to develop an appreciation for the nature of childhood and the pivotal role this stage plays in maintaining cultural continuity and influencing cultural evolution**.**

ANT 2470. The Anthropology of Globalization (3). This course introduces students to the topic of globalization as conceptualized by cultural anthropologists, examining the spread of capitalist economic principles into cultures in which other logics regulate economic and social life. The course draws on ethnography, political economy, public health, and ecology to explore how populations resist, appropriate, and exploit the perils and opportunities of globalization.

ANT 2511. Introduction to Physical Anthropology and Prehistory (3). This course introduces theory and principles of genetically based evolution. It reviews fossil evidence for human evolution and competing ideas about the specific pathways to modern humans. It emphasizes the genetic unity of humankind and the universal features that underlie individual and cultural diversity.

ANT 3101. Fundamentals of Archaeology (3). Prerequisite: ANT 2100. This course provides an overview of objectives, field strategies, basics of laboratory analysis, interpretative approaches to the record, and what the threats to archaeological/cultural resources are. This includes a brief overview of the history of archaeology and the changes in strategies used to examine the prehistoric and historic archaeological records. An emphasis is placed upon developing an understanding of the fundamental objectives and methodologies used in modern anthropological archaeology.

ANT 3133. Introduction to Underwater Archaeology (3). Prerequisite: ANT 2100. This course is a survey of the history, theory, methods, and problems of underwater archaeology, with attention given to the types of investigations and environments in which underwater archaeology is conducted and to the field's particular contributions to anthropology.

ANT 3141. World Prehistory (3). This course outlines the major events in human cultural and social evolution and includes a brief presentation of general archaeological methods and objectives. The course focuses on the evolution of civilization in the Middle East, Europe, China, Africa, and the Americas.

ANT 3212. Peoples of the World (3). This course is a survey of the world's cultures by major geographic regions. The purpose is to familiarize the student with the range and variety of the human condition and at the same time instill in the student a respect and admiration for humankind. Lectures, readings, and visual materials are utilized.

ANT 3300. Masculinity in Global Perspective (3). Prerequisite: ANT 2301 is recommended. This course undertakes an integrative account of what it means to be a man. The course draws upon comparisons with other animals, insights into the physiology of social behavior, cross-cultural accounts of masculinity, and U.S. studies of male behavior, all within an overarching evolutionary perspective. Discussion highlights the relevance of male studies to individual and social meaning, and informs contemporary societal concerns over men.

ANT 3451. Race: Biology & Culture (3). This course examines the concept of race from the perspectives of biological and cultural anthropology, beginning with the study of modern human biological variation and its clinical distribution. This biological patterning is then contrasted with the social categories of race. The final section of the course covers the history of the concept of race, the ways humans culturally construct divisions in different societies, and the continued effects of racial concepts on science and modern cultures.

ANT 3520. Introduction to Forensic Anthropology (3). Prerequisite: ANT 2511. This course is an introduction to forensic anthropology as a scientific discipline within the field of anthropology, examining what happens to a body immediately after death, the process of decomposition, and taphonomic changes. The course also examines what is required of a forensic investigation of such a body from search to documentation, collection, processing, and lab analysis.

ANT 3610. Language and Culture (3). This course is an introduction to and examination of human language, its relation to perception and cognition, and its role in social interaction. This includes verbal as well as nonverbal communication modes, their variety and complexity, the evolution of language, and language change.

ANT 4034. History of Anthropology (3). Prerequisites: ANT 2100, ANT 2410 and ANT 2511. This course is a survey for majors that reviews the development of the central ideas that have shaped the emergence of anthropology as a science. The approach is critical and objective, the presentation is chronological, and the emphasis is to evaluate the scope and limitations of modern theories.

ANT 4118. Principles of Geoarchaeology (3). Prerequisite: ANT 2100. This applied course covers the contribution of earth science to the interpretation of geoarchaeological contexts. This course consists of field, lab, and lecture components. Emphasis is placed on the methods and geoarchaeology and the applications of selected earth science fields to archaeological problems. Students are required to participate in field trips in order to complete field descriptions and sampling.

ANT 4135. Nautical Archaeology: Global View (3). Prerequisite: ANT 2100. This course studies human interaction with bodies of water, particularly in the maritime environment. Illustrated presentations, readings, and discussions focus on a variety of cultures and watercraft from Asia, Australia, the Mediterranean, and Europe.

ANT 4145. Origins of Complex Society (3). Prerequisite: ANT 2100. This course examines the evolution of ancient complex societies and theories of state origins using a comparative method involving ecological, economic, and social approaches to investigate the origins, collapse, and sustainability of complex societies.

ANT 4153. North American Archaeology (3). Prerequisite: ANT 2100. This course examines the prehistory of North America from the earliest big-game hunters who exploited extinct megafauna to the societies existing at the time of historic contact. Regional variation and continuity in subsistence and settlement patterns and material culture are examined.

ANT 4185. Paleonutrition (3). Prerequisite: ANT 2100. This course covers methods in reconstruction of past economic behavior and diet. It includes lab work in identification and analysis of faunal remains.

ANT 4188. Artifact Analysis (3). Prerequisite: ANT 3101. This course teaches students how to employ systematic and scientific methods of data collection using a variety of basic instruments such as calipers, scales, and microscopes. These methods are used to understand how past populations used different artifact technologies to adapt to their environment and which factors influenced how, when, and where groups used different tools. In doing so, the course teaches students to understand the relationship between data collection, hypothesis testing, and argument building within the broader context of human evolution, culture, and technological development.

ANT 4241. Anthropology of Religion (3). Prerequisite: ANT 2410. This course covers the cultural conceptions of supernatural reality with emphasis on comparative understanding of myth and ritual, the religious experience, and religious evolution and revitalization movements.

ANT 4277. Human Conflict: Theory and Resolution (3). This course provides an introduction to the nature of and theories concerning human conflict from the interdisciplinary perspectives of biological and cultural anthropology, political economy, and the history of warfare. Particular emphasis is placed upon cross-cultural applications.

ANT 4302. Sex Roles in Cross–Cultural Perspective (3). Prerequisite: ANT 2410. This course explores sex roles in anthropological perspective with emphasis on data from archaeology and ethnology. Special emphasis on the interpretation of sex roles by anthropologists in the field.

ANT 4312. Contemporary Native American Cultures (3). This course explores the cultural traditions, contemporary issues, and historical policies that have shaped the social experiences of Native peoples in the United States and Canada with attention to: tribal sovereignty, residential schools, reservations, the legislation of Native identity, gender, urban identity, land and language. The course examines the distinctive cultural practices of Native American communities in different geographic areas as well as explore the ways in which Native people today maintain cultural identity and sovereignty in response to the ever-changing social conditions of life in the 21st century.

ANT 4363. Japanese Society and Culture (3). This course is intended to be an anthropological introduction to Japan. It aims to clarify the origins of Japanese culture and people, to interpret its cultural history from the earliest times to the present, and to account for the relationship among the components of culture such as ideology, social structure, personality formation, and economic development.

ANT 4422. Kinship and Social Organization (3). This course surveys anthropological thought and practice (theory and methods) with respect to kinship and related forms of social organization, including the classification and analysis of kinship systems and associated terminology, patterns of marriage and residence, descent theory and alliance theory, and the role of kinship in different social systems.

ANT 4462. Introduction to Medical Anthropology (3). This course is an investigation of different medical systems and their practitioners, the ecology of health, illness, human adaptation, nutrition, and the life cycle.

ANT 4465. Foodways Archaeology (3). Prerequisite: ANT 2100 or ANT 2410. This course addresses the topic of food from an anthropological archaeological perspective. The course examines the role food played in shaping identity, gender construction, ethnicity and rituals in past societies. The course also works to engage other disciplinary perspectives, such as those from history, literature, economics and environmental studies, as it attempts to make larger connections with the ways in which food and eating are holistically approached from an anthropological perspective.

ANT 4468. Bones, Bodies, and Disease (3). Prerequisite: ANT 2511. This course introduces students to Paleopathology. The course shows how the latest scientific and archaeological techniques can be used to identify the common illnesses and injuries that humans suffered in antiquity. In order to give a vivid picture of ancient disease and trauma, results of the latest scientific research that incorporate information gathered from documents are presented. This comprehensive approach to the subject throws fresh light on the health of our ancestors and on the conditions in which they lived, and it gives students an intriguing insight into the ways in which they coped with the pain and discomfort of their existence.

ANT 4525. Human Osteology (3). Prerequisite: ANT 2511 or instructor permission. This course is designed to acquaint the student with each of the bones of the normal adult human skeleton. It is particularly appropriate for those students interested in archaeology and physical anthropology. Each bone is examined, followed by a review of abnormal variations. The uses of anthropometric instruments are demonstrated as are the methods of estimating age, sex, and racial origin.

ANT 4533. The Anthropology of Infancy (3). Prerequisite: ANT 2511 or instructor permission. This course provides an overview of the early phase of the life cycle. It uses data and theory from biological anthropology, primate ethology, evolutionary psychology, and sociocultural anthropology to provide nontraditional perspective on human development and its interface with the caretaking behavior of adults.

ANT 4552. Primate Behavior (3). Prerequisite: ANT 2511 or instructor permission. This course introduces the substantial scholarly literature on the behavior and ecology of free-ranging prosimians, monkeys, and apes. Anthropological applications of recent findings are emphasized.

ANT 4553. The Great Apes (3). Prerequisite: ANT 2511 or instructor permission. This course focuses on the behavior and ecology of the large-bodied, non-human hominoids: chimpanzees, bonobos, gorillas, and orangutans. It also introduces the complexities involved in using this evidence to draw conclusions about human evolution.

ANT 4586. Human Evolution (3). Prerequisite: ANT 2511 or instructor permission. This course emphasizes a close examination of the fossil record for human evolution. It builds on basic principles and ideas presented in ANT 2511.

ANT 4824r. Anthropological Fieldwork: Archaeology (3–9). Prerequisite: ANT 3101. This course trains students in the principles and methods of archaeological fieldwork, including research strategy development, recovery, recording and controls, sampling strategy, mapping, surveying, laboratory analysis, quantification, and report preparation. This is an intern-type course, sometimes requiring the student to live off-campus. May be repeated to a maximum of nine credit hours.

ANT 4834r. Techniques of Underwater Site Research (3–9). Prerequisite: ANT 3101. This course is an introduction to the techniques of underwater research in marine sciences, with a focus on archaeology. May be repeated to a maximum of nine (9) credit hours.

ANT 4905r. Directed Independent Study (1–3). (S/U grade only.)

ANT 4907r. Directed Independent Study (1–3). May be repeated to a maximum of twelve semester hours.

ANT 4914r. Honors Work (1–3). May be repeated to a maximum of nine semester hours.

ANT 4930r. Special Topics in Anthropology (1–3). This course deals with specialized subjects and topics in anthropology. Topics may vary. May be repeated to a maximum of twenty-one semester hours. May be repeated within the same semester.

ANT 4940r. Anthropology Internship (3). Prerequisites: ANT 2100 or ANT 2410 or ANT 2511. Anthropology GPA of 3.0 or higher; Junior or Senior Standing; Anthropology Major or Minor; Prior approval by FSU faculty member. This course is an internship and must be undertaken with a governmental agency or non-profit organization (cannot be part of FSU). Students are provided with a variety of professional work experiences, under the supervision of the student's academic advisor and a collaborating professional at the sponsoring organization. May be repeated up to a maximum of 9 semester hours.

IDS 3340. Who Owns the Past: Perspectives on Ethics in Anthropology (3). This course surveys ethical issues from a four-field approach, addressing past and current ethical questions in Archaeology, Cultural Anthropology, Physical Anthropology, and Linguistics. Students are expected to think critically and build their own opinions based on lectures, articles, and class discussions for each topic.

LIN 4030. Introduction to Historical Linguistics (3). This course is designed to familiarize students with the world language families, notion of relatedness, sound correspondence, comparative method, internal reconstruction, and the reconstruction of the Proto-Indo-European languages. Several theories of sound change are also discussed.

LIN 4040. Introduction to Descriptive Linguistics (3). This course attempts to develop an understanding of the organization of language, to provide tools and techniques for describing language data, and to examine various models of linguistic description. May count toward the major in Slavic (Russian) and Spanish.

Graduate Courses

ANG 5002. Proseminar (1). (S/U grade only.)
ANG 5091. Seminar in Research Methods (3).
ANG 5111. Forager Societies (3).
ANG 5115r. Seminar in Archaeology (3).
ANG 5116. Regional Analysis in Archaeology (3).
ANG 5117. Core Seminar in Archaeology (3).
ANG 5126. Zooarchaeology (3).
ANG 5127. Advanced Zooarchaeology (3).
ANG 5130. Fundamental of Underwater Archaeology (3).
ANG 5145. Origins of Complex Society (3).
ANG 5155. Archaeology of the Southeastern United States (3).
ANG 5172. Historic Archaeology (3).
ANG 5193r. Seminar in Archaeology (3).
ANG 5194r. Analysis and Interpretation of Archaeological Research (3).
ANG 5240. Anthropology of Religion (3).
ANG 5266. Economic and Ecological Approaches in Anthropology (3).
ANG 5275. Human Conflict: Theory and Resolution (3).
ANG 5426. Kinship and Social Organization (3).
ANG 5471. Technology and Social Change (3).
ANG 5491r. Seminar in Social Anthropology (3).
ANG 5493. Core Seminar in Culture Anthropology (3).
ANG 5511r. Seminar in Physical Anthropology (3).
ANG 5513. Core Seminar in Physical Anthropology (3).
ANG 5580. Biocultural Adaptation and Paleodemography (3).
ANG 5581. Method and Theory in Human Biology (3).
ANG 5675. Core Seminar in Linguistic Anthropology (3).
ANG 5677r. Seminar in Linguistic Anthropology (3).
ANG 5801. Field Methods in Cultural Anthropology (3).
ANG 5824r. Anthropological Fieldwork: Archaeology (3–9).
ANG 5835r. Underwater Archaeological Methods (3–9).
ANG 5905r. Directed Individual Study (1–3). (S/U grade only.)
ANG 5906r. Directed Individual Study (1–3).
ANG 5910r. Supervised Research (1–3). (S/U grade only.)
ANG 5940r. Supervised Teaching (1–3). (S/U grade only.)
ANG 5942r. Internship in Museum Studies (3–9).
ANG 6119. Geoarchaeology (3).
ANG 6484. Cultural Analysis (3).
ANG 6907r. Directed Independent Study (1–3). (S/U grade only.)
ANG 6908r. Directed Independent Study (1–3).
ANG 6930r. Advanced Seminar in Anthropology (3).

For listings relating to graduate coursework for thesis and master's examinations and defense, consult the *Graduate Bulletin*.

ARABIC:
see Modern Languages and Linguistics

ARCHAEOLOGY:
see Anthropology

Undergraduate Department of ART

College of Fine Arts

Website: *http://art.fsu.edu/*

Chair: Stephanie James; **Professors:** Baade, Bookwalter, Garcia-Roig, Hanessian, Henne, Lindbloom; **Associate Professors:** Beekman, Duarte, Mann, Roberson, Rushin; **Assistant Professors:** Bouscaren, Ingram, Luedtke, Sleeper, Spence, Stagg; **Assistant Teaching Professor:** Curry; **Visiting Teaching Faculty:** DiDonna; **Professors Emeriti:** Bell, Blakely, Burggraff, Fichter, Hartwell, Rubini, Rutkovsky, Stewart

The Department of Art offers diverse opportunities for creative development and expression, provides instruction in the skills necessary for artistic creation, and guides students to an understanding of contemporary issues in the visual arts in an academically challenging environment. The department is committed to excellence in all programs and strives to combine curricular flexibility and a rigorous mix of experiences with opportunities for serious, focused study in art and digital media. The department benefits from the Museum of Fine Arts (MoFA) for student and faculty exhibitions. Additionally, the department serves as a resource to the rest of the University, providing exhibitions, visiting artist lectures, and foundation courses for related programs.

The Department of Art offers an undergraduate degree program leading to the Bachelor of Arts (BA) in studio art and a limited access Bachelor of Fine Arts (BFA) degree program in studio art. In the Master of Fine Arts (MFA) degree program, graduates may pursue studies in either a studio or digital media area. Course selection encompasses history, theory, and practice. Studies may include ceramics, electronic media, drawing, installation, painting, photography, printmaking, and sculpture. Depending upon personal development, students may choose to work in a variety of media or to concentrate in an area of interest. Each degree program mandates specific entry requirements, a certain sequence of courses, and graduation requirements. Information on each program beyond that explained in this *General Bulletin* is available through the Department of Art academic advisor.

Students entering the department should visit the department's Web site at *http://art.fsu.edu/* for specific details regarding major requirements.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors satisfy this requirement by earning a grade of "C–" or higher in ART 1602C.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Studio/Fine Art

1. ART X201 or ART XXXX (2D)
2. ART X202 or ART X203 or ART XXXX (Design II, 3D)
3. ART X300
4. ART X301 or ART X330 (Figure drawing) or ART X205 (Color, color composition) or ART X310 (Intermediate drawing) or ART X305 (Observational)
5. ARH X050
6. ARH X051
7. ART XXXX: one course for six credit hours

Note: All courses except ARH X050 and X051 require a "C" or higher.

Undergraduate Programs

Admission and Readmission

Students desiring to enter the department should visit the department's Web site at *http://art.fsu.edu/programs-2/undergraduate/* for specific details regarding major requirements.

Students who apply for readmission to the department must meet the studio art degree requirements listed in the *General Bulletin* that is current at the time of readmission.

Academic Performance and Retention

The Department of Art reserves the right to discontinue enrollment of art major students at any time if satisfactory academic progress is not being made. Students who have accumulated three unsatisfactory grades (U, F, D–, D, D+) in art courses taken for college credit at Florida State University or elsewhere will generally not be permitted to continue, be readmitted, or graduate with a major in studio art. Courses in which a grade below the minimum is received may only be repeated once. Repeated courses designated as non-repeatable (such as foundations courses) will not be counted toward overall credit hours per University requirements. BA students must maintain a minimum GPA per University requirements. BFA students must maintain a minimum cumulative GPA of 2.5 and a GPA of 3.0 in studio art classes. If a BA/BFA student's GPA falls below the minimum, s/he is placed on probation for the following semester. If the student's grade or GPA remains below the minimum standards by the end of the probationary semester, s/he is dismissed from the Department of Art. The Department of Art retains the right to refuse admission or terminate enrollment at any time if a student fails to maintain the standards of the program.

The Foundations Program

The Department of Art requires that students receive a sound foundation in basic visualization and conceptualization skills and in the fundamentals of studio theory and practice. To this end, students are encouraged to complete a foundations program before taking other art courses. The program consists of a sequence of basic drawing, design, art theory, and imaging courses. Students are encouraged to complete their foundations-level courses by the end of the freshman year. Entering students should contact the department for specific details regarding foundations requirements or visit the department's Web site at *http://art.fsu.edu/programs-2/media-areas/foundations/*.

Mission

The Art Foundations Program provides beginning art students with the fundamental skills, knowledge, and experiences essential to their further development as visual arts professionals.

Philosophy

In the Foundations Program, students are encouraged to expand their technical skills, develop their critical judgment, explore interdisciplinary connections, refine their personal goals, and increase their understanding of contemporary art and design. Inventive concepts are used to fuel development of compelling composition and constructions. The curriculum provides the basis on which the BA and BFA programs are built in the Department of Art.

Note: Students are required to complete state of Florida Common Program Prerequisites as listed above.

Required Foundations Courses

(Foundation for all art majors)

The following classes are strongly recommended to complete the required foundations program.

ART 1000 Success Strategies (1)
ART 1201C Two-Dimensional Foundations (3)
ART 1203 Three-Dimensional Foundations (3)
ART 1300C Drawing Foundations (3)
ART 1602C Digital Foundations (3)
ART 2204C Contemporary Art and Design Foundations (3)

The Bachelor of Arts (BA) in Studio Art

The Bachelor of Arts (BA) in studio art is a fundamental liberal arts program that aims to cross geographical and disciplinary boundaries while cultivating critical, creative, and compassionate thinkers. It seeks to provide students with training in the visual arts and to combine this with other discipline skills that prepare them for the workplace.

The Bachelor of Arts (BA) in studio art is a program totaling one hundred twenty semester hours. Requirements include: liberal studies, thirty-six semester hours; completion of the foundations program, sixteen semester hours; art history, nine semester hours; additional studio, twenty-one semester hours; the successful completion of a foreign language course through the intermediate level; and nine semester hours of additional humanities. Within the twenty-one semester hour studio requirement, the BA student is expected to complete one focus area. For specific details, including all focus area templates, please visit *http://art.fsu.edu/Undergraduate/BA*.

Bachelor of Fine Arts (BFA) Admission Application

Admission to the Bachelor of Fine Arts (BFA) is by portfolio review by the faculty. Applicants may apply to the BFA program as a freshman entry, from the BA in Studio Art, or as a transfer from another college. Admission is dependent on a successful portfolio review.

The Bachelor of Fine Arts (BFA) in Studio Art

The Bachelor of Fine Arts (BFA) in studio art is a limited access, one hundred twenty semester-hour program. It differs from the BA degree in that it provides the graduate with a more intensive background in professional skills and theoretical knowledge. The BFA degree seeks to develop in students an informed personal vision, a high level of competence in technique, the ability to apply critical and reflective skills to their practice, and the ability to make sound artistic decisions within the appropriate contextual and cultural arena. It is a proficiency-based program characterized by continuous assessment.

In addition to the thirty-six semester hours of liberal studies, coursework includes sixteen semester hours of foundations, fifty-one semester hours of studio art courses, and twelve semester hours of art history. An important aspect of the program is that students are taught to make their own decisions with regard to media selection or concentration. Within the fifty-one semester hour studio requirement, the BFA student is expected to complete two focus areas. The BFA student must also complete the Thesis Project and Exhibition Practicum in the final semester. Students admitted to the BFA program are exempt from the language requirement and they must maintain a minimum cumulative GPA of 2.5 and a GPA of 3.0 in art classes. They are required to fulfill the additional requirements and responsibilities of this program including attending and satisfactorily performing in all BFA reviews, culminating in the advancement review and graduation exhibition. The BFA advisor can provide additional guidance regarding entrance and specific degree requirements. For specific details, including all focus templates, please visit *http://art.fsu.edu/Undergraduate/BFA-in-Studio-Art*.

Students in their sophomore year in the BFA program will have the opportunity to request personal studio space in the Carnaghi Arts Building, where they can work and exhibit in a public gallery space.

Graduate Program

The Master of Fine Arts (MFA)

The Master of Fine Arts (MFA) in studio art is a residency program with a minimum requirement of sixty semester hours at the graduate level. In addition to University admission requirements, the department requires that all applicants submit a portfolio of slides or original work for review. The program includes a minimum of forty-two semester hours in studio art, nine semester hours of electives within or outside the department, a minimum of three courses (nine semester hours) in academic study at the graduate level, and a minimum of nine of the forty-two studio art semester hours toward preparation of the graduate exhibition and thesis.

For information regarding the MFA degree, please contact the Department of Art academic advisor and refer to the *Graduate Bulletin*.

Student Safety

Students in each course will be instructed in safe practice with both tools and materials and will be responsible for following safety regulations.

Definition of Prefixes

ARE—Art Education
ARH—Art History
ART—Art
DIG—Digital Media
IDS—Interdisciplinary Studies
PGY—Photography

Undergraduate Courses

Correlating Courses

IDS 3167. Contemporary Art as a Mirror (3). This course identifies the cultural landscape that artists are currently exploring and discusses a variety of artists' works to explore and critically analyze the ways that art can function as a mirror of contemporary society.

IDS 3169. Art and the Environment (3). This course provides an introduction into the theories and creative processes that propel environmental art and design. Students explore a wide range of creative media, methods, and themes used by visual artists and designers that address the environment. By analyzing, discussing and writing about environmental art and design, students develop an enhanced awareness of the complexities faced globally and gather perspectives on the ways artists attempt to affect change.

PGY 2100C. Photography for Non-Art Majors (3). This course is an introduction to camera operation and image making, with discussion of contemporary and historical work. Emphasis on 35mm slide projects rather than printing techniques. (This course may be offered as part of FSU International Programs curriculum.)

Studio Courses

ART 1000. Success Strategies in Art and Design (1). (S/U grade only.) This course provides an orientation designed to increase first-year student success, introduce departmental concentrations, and explore career possibilities.

ART 1201C. Two-Dimensional Foundations (3). This course provides experience in conceptualizing, creating, and critiquing two-dimensional compositions using the elements and principles of design.

ART 1203. Three-Dimensional Foundations (3). This course provides experience in designing and constructing expressive three-dimensional forms using a variety of materials and methods.

ART 1300C. Drawing Foundations (3). This course includes creative expression and communication using a variety of black and white media.

ART 1602C. Digital Foundations (3). This course offers an introduction to the theory and practice of digital imaging and the basics of time-based art and design.

ART 2204C. Contemporary Art and Design Foundations (3). This course is an investigation of the creative processes and critical thinking that propel contemporary art and design.

ART 2205C. Color Theory Foundations (3). This course offers experiments in color perception and in the uses of color in visual communication and expression.

ART 2301C. Drawing II (3). Prerequisites: ART 1201C and ART 1300C. This course builds on the technical and conceptual skills learned in Drawing I. Artistic expression and communication through drawing in both black and white and color media.

ART 2330Cr. Figure Drawing Foundations (3). Prerequisite: ART 1300C. This course explores the anatomical and conceptual complexities of the human form.

ART 2400C. Introduction to Printmaking (3). Prerequisites: ART 1201C (C-or better) and ART 1300C (C-or better); Pre and/or Corequisites: (C- or better): ART 1000 and ART 1203 and ART 1602C and ART 2204C. In this introductory printmaking course, students learn the basics of each printmaking media including relief, etching, screen printing, polyester plate lithography, and bookmaking.

ART 2500C. Beginning Painting (3). Prerequisites: ART 1201C (C-or better) and ART 1300C (C-or better). Pre and/or Corequisites: (C- or better): ART 1000 and ART 1203 and ART 1602C and ART 2204C. This course is an introduction to personal expression in painting medium; emphasizes color, composition, and painting techniques through historical examples and technical demonstrations.

ART 2701C. Sculpture I (3). Prerequisites: ART 1201C, ART 1203, and ART 1300C. This course is an introduction to basic sculptural processes of fabrication, carving, modeling, and casting. Emphasis on developing ideas through analytical responses to assignments.

ART 3173C. Book Structures (3). This course is an initiation into the fundamental techniques, processes and materials used in producing handmade books. In addition to hand skills, students are introduced to the history, theory and context concerning the field of book arts.

ART 3212C. BFA Fundamentals (1). Prerequisite: BFA major status. This course enables students to become acquainted with all elements of the BFA Program; its procedures and requirements as outlined in the BFA manual. This course serves as the supervision of the incoming BFA focusing on critiques, working towards the BFA Exhibition, and creation of an extensive research binder.

ART 3333C. Figure Drawing II (3). Prerequisites: ART 1300C and ART 2330C. This course explores the anatomical, conceptual, and expressive complexities of the human form.

ART 3380C. Experimental Drawing (3). Prerequisites: ART 1300C, ART 2301C and ART 2330C. This course explores a variety of approaches to drawing using a wide range of media, materials, and strategies.

ART 3433Cr. Screen Printing (3). Prerequisite: ART 2400. In this course students, expand on the basics of screen printing learned in the Introduction to Printmaking course. New processes include photo based stencils, alternate materials, multiple colors, and advanced concepts and uses of the multiple. May be repeated to a maximum of nine semester hours.

ART 3442Cr. Intaglio Printmaking: Etching (3). Prerequisite: ART 2400C. In this course students expand their knowledge of intaglio techniques beyond the basics learned in the fundamentals of printmaking course. Students learn contemporary non-toxic intaglio techniques including color printing, drypoint, chine colle, soft ground etching, line etching, aquatint, photo etching and traditional and experimental printing. May be repeated to a maximum of nine semester hours.

ART 3443Cr. Relief Printmaking (3). Prerequisite: ART 2400C. In this course students learn and execute intermediate and advanced levels of the relief print process including color woodcut, registration, reduction woodcut, printing with found materials, laser cut woodcut, chine colle, ink modification, paper selection and image creation. May be repeated to a maximum of nine semester hours.

ART 3471Cr. Letterpress (3). Prerequisite: ART 2400C. This course is an introduction to the fundamentals of letterpress printing. Using movable type and other relief surfaces, students design and print several projects. In addition to learning techniques in letterpress printing, students are introduced to the history and context of letterpress printing. May be repeated to a maximum of nine semester hours.

ART 3522r. Intermediate Painting (3). Prerequisite: ART 2500C. This intensive studio course offers painting as a means of investigating content and concepts. The emphasis is on developing ideas while refining techniques of handling paint. May be repeated to a maximum of six semester hours.

ART 3542Cr. Aqueous Painting (3). This course is an investigation of acrylic, watercolor, gouache, and flash processes and techniques. A very intense study that requires exploration of watercolor to its fullest potential. May be repeated to a maximum of six semester hours.

ART 3560r. Figure Painting (3). Prerequisites: ART 2330C, ART 2500C, and ART 3522. This course uses the nude figure as the focus of study. The emphasis shifts towards the development of more personal expressions and personal development in terms of painting style and technique. May be repeated to a maximum of six semester hours.

ART 3561. Experimental Painting (3). Prerequisites: ART 1201C and ART 1300C. This course is an investigation of non-traditional painting materials and approaches in the context of "hybridization." Over the course of the semester, several topics in the use of new technologies of production are covered.

ART 3590r. Painting Materials and Techniques (3–6). Prerequisites: ART 2500C and ART 3522. This course explores basic principles of the layered painting techniques that developed and flourished in the 15th through the 20th centuries and examines how varying approaches to illusion, form, color, and content are intrinsic to the expressive aims of painting. May be repeated to a maximum of six semester hours.

ART 3651. Art and Electronic Media (3). Prerequisites: ART 1201C, ART 1300C, and ART 1602C. This course explores the relationships between art and electronic media in the 20th and 21st centuries. The course focuses on the shift from industrial to information-driven economies, the curriculum outlines digital arts historical trajectory, from the invention of photography to recent digital tools. Special attention is given to film, gaming, 3D printing, architecture and interdisciplinary art practices.

ART 3654C. Web 1: Art, Design, Code (3). Prerequisites: ART 1201, ART 1300, ART 1602, and ART 3651. In this course, students learn to conceptualize, design, and program responsive websites as both an applied and creative practice. Through a combination of technical topics in interface design and development such as usability, coding in HTML, CSS, JavaScript and Jquery, as well as readings and discussions around net-based artworks and historical and cultural concerns surrounding the internet as a communication platform, student execute interactive projects that are both culturally-relevant and technically sophisticated.

ART 3710C. Sculpture II (3). Prerequisite: ART 2701C. This course allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach.

ART 3764C. Beginning Ceramics (3). Prerequisites: ART 1203 (C- or better) and ART 1300C (C- or better). Pre and/or Corequisites: (C- or better): ART 1000 and ART 1201C and ART 1602C and ART 2204C. This course covers handbuilding processes and fundamental glazing techniques. Emphasis is on the development of a high degree of technical proficiency and a keen sense of form in ceramic mediums.

ART 3930r. Special Topics in Art (1–3). (S/U grade only.) This course covers faculty developed topics of importance to students' interests and needs. May be repeated to a maximum of three semester hours.

ART 4122C. Print on Clay (3-6). Prerequisites: ART 3764C or ART 4762C, and all Studio Art Foundations coursework with a grade of C- or better: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2204C. This course covers a variety of print techniques to create surface content on ceramic forms through assigned projects. Each project is accompanied by presentations of historical to contemporary examples and technical demonstrations.

ART 4215Cr. BFA Studio (1). Prerequisite: Must be a BFA Studio Art Major. In this course, students develop their practice and research in the context of the 'studio'. Students define "studio" in relation to production; how are they using and functioning in their studio space and to contextualize this in regard to historical and contemporary paradigms. May be repeated to a maximum of three (3) credit hours.

ART 4520r. Advanced Painting (3). Prerequisites: ART 2500C and ART 3522. This course provides an advanced undergraduate studio experience, where students direct their semester projects. This course is designed for students in the BFA program with a concentration in 2-D art. Each student is provided with opportunities to expand their understanding, production, and quality of their work through critique, group discussion, lectures, and presentations. May be repeated to a maximum of six semester hours.

ART 4642C. Digital Fabrication (3). Prerequisites: ART 1203 (C- or better) and ART 1300C (C- or better). Pre and/or Corequisites: (C- or better): ART 1000 and ART 1201C and ART 1602C and ART 2204C and ART 3651. This course serves as an introduction to the modeling, simulation, and physical realization of digital forms, through the use of rapid prototyping techniques and associated software applications. Through readings, screenings, and discussions, students explore the technology, theory, history, and current trends regarding the use of digital forms in contemporary art and culture. Students also design, and realize their own works of art utilizing the appropriate tools and techniques, then evaluate the results and those of their peers in critique sessions.

ART 4656Cr. Web 2: Art, Design, Code (3). Prerequisite: ART 3654C. This course introduces students to advanced interface design and programming concepts for creating dynamic internet applications for both practical and expressive ends. Students explore themes through reading, discussion and film that address the public, chaotic, and political space that is the Internet. Students also execute culturally-relevant web-based applications using professional tools. May be repeated to a maximum of nine semester hours.

ART 4662C. Digital Large Format (3). Prerequisites: ART 1201C, ART 1203, ART 1300C, ART 1602C, ART 2204C, and PGY 2941C. All Studio Art Foundations coursework must be completed with a grade of C- or better. This course is an investigation of advanced photographic techniques, both traditional and digital. By merging these tools, artists can discover new technical and conceptual possibilities not previously available to either singular method. The course also investigates how these techniques have expanded the definition of photography, and how the viewer's relationship to the image has changed through new exhibition possibilities afforded by these techniques.

ART 4686C. Video Art (3). Prerequisites: ART 1201C, ART 1203, ART 1300, ART1602C, ART2204C, and completion of all Studio Art Foundations coursework with a grade of C- or higher. This course emphasizes video as a fine art medium, rather than a vehicle for narrative storytelling. The course is geared toward conflict and resolution, and focuses on creating works primarily concerned with concept and affect, with an interest in the formal aspects of digital video.

ART 4762. Ceramics II: Wheel As Tool (3). Prerequisites: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, ART 2204C, ART 4922. This course includes development of ceramic techniques, concepts, and presentation strategies in support of personal aesthetic development using a potter's wheel.

ART 4766Cr. Clay and Glaze Materials (3). Prerequisites: ART 3764C or ART 4762C; and ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2204C. Studio art students are required to complete all Studio Art Foundations coursework with a grade of C- or better. This course is an advanced level ceramic studio course designed to develop an understanding and knowledge of ceramic materials. Information is given on how to individually formulate ceramic clay bodies and glazes through assigned projects.

ART 4780r. Kiln Building: Theory and Practice (3). Prerequisites: ART 1201C, ART 1203, ART 1300C, ART 1602C, ART 2204C, and ART 2764C. All Studio Art students must complete all Studio Art Foundations. Coursework must be completed with a grade of C minus or higher. This course covers the theories and structures of how to build a variety of kilns through hands-on projects and research presentations. The course presents historical and contemporary examples, along with technical information and demonstrations. May be repeated to a maximum of six (6) credit hours.

ART 4871C. The Photographic Book (3). Prerequisites: ART 1201C, ART 1203, ART 1300C, ART 1602C, ART 2204C, and PGY 2941. All Studio Art Foundations coursework must be complete with a grade of C minus of higher. This course focuses on photographic books as a means of final output, it explores ways to edit, sequence, and reveal photographic content within a given form. In particular, it will focus on image editing, sequencing, material choices, and final outputs to maximize the photographic content.

ART 4872C. The Directorial Mode (3). Prerequisites: ART 1201C, ART 1203, ART 1300C, ART 1702C, ART 2204C, AND PYG 2941. All Studio Art Foundations coursework must be completed with a grade of C minus or higher. This course considers the various ways in which the camera has been used to document ideas and images created specifically for the lens. Conceptual ideas explored include photography and performance, the studio as stage, time-based investigations, and the isolation of identity in the portraiture. Significant technical skills are explored such as the proper use of lighting (studio and natural) and advanced Lightroom and Photoshop skills.

ART 4867Cr. Digital Ceramics (3). Prerequisites: ART 3764C or ART 4762C; and ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2204C. Studio art students are required to complete all Studio Art Foundations coursework with a grade of C- or better. This course is a digitally-based ceramic course utilizing a variety of techniques to create ceramic forms through assigned projects. Each project is accompanied by presentations of historical to contemporary examples and technical demonstrations.

ART 4801r. BFA All-Media Critique (3). Prerequisites: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, ART 2201C, ART 2204C. This course is structured to provide analysis of the individual student's artistic progress through critiques of visual and written work. In support of the student's studio practice, writing assignments develop their descriptive, conceptual, and critical analysis of art. This class assists the BFA art student in preparing for all aspects of their Advancement Review in preparation for the BFA Thesis course.

ART 4851. BA: Exploring Opportunities in the Arts (3). Prerequisites: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, ART 2204C, and junior standing within the BA Program. This course investigates the various ways a BA in studio art can prepare students for future endeavors, operating under the belief that college experience is preparatory. Students gain exposure to a range of future prospects, outline a future direction and develop specific materials in application for personally defined opportunities.

ART 4905r. Directed Individual Study (3–9). May be repeated to a maximum of nine semester hours.

ART 4943r. Internship in Creative Art (1–12). (S/U grade only.) Prerequisites: Sixteen credits completed in Foundations and "B" average in all related courses. This course facilitates internships in a variety of work situations. Must be approved by department chair. Preference given to seniors. May be repeated to a maximum of twelve semester hours.

ART 4970. BFA Thesis Project and Exhibition (3). Pre- or corequisites: This course is taken in the student's final semester; therefore, all degree requirements are pre- or corequisites. Any remaining art courses for the degree must be taken during the semester this course is taken. This course is the capstone course for all BFA students in the Department of Art. Students develop and execute a capstone thesis project to be exhibited publicly. Additionally, the students organize an artist's talk to be delivered to an audience.

ART 4981r. Honors Work (3). May be repeated to a maximum of twelve semester hours.

PGY 2401C. Photography I (3). Prerequisites: ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2003C or ART 2204C. This course offers a study of photography as a creative means of expression. Topics include 35mm technology and fine black-and-white printmaking.

PGY 2941C. Digital and Photographic Imaging (3). Prerequisites: ART 1201C and ART 1602C. This course introduces students to lens-formed image production through both liquid (traditional darkroom) and dry processes (digital). It includes image analysis within both critical and historical frameworks.

Media Workshops

Note: The media workshops allow students to pursue intensive technical studies in one specific medium under the appropriate instructor. Workshops serve as an extension of intermediate courses in corresponding media.

ART 4921Cr. Media Workshop: Painting/Drawing (3). Prerequisite: ART 2500C. This course consists of independent studies under painting instructors; emphasis on competence in medium and development of individual solutions to problems. May be repeated to a maximum of twelve semester hours.

ART 4922Cr. Media Workshop: Ceramics (3). Prerequisites: ART 1203 and ART 3764C. This course involves intensive studies in sculpture. May be repeated to a maximum of twelve semester hours.

ART 4923Cr. Media Workshop: Printmaking (3). Prerequisite: ART 2400C or ART 2430C. This course covers advanced techniques of silkscreen, relief printing, etching, and lithography, as well as photo-silkscreen, and papermaking, depending on appropriate instructor. May be repeated to a maximum of twelve semester hours.

ART 4924Cr. Media Workshop: Photography (3). Prerequisite: PGY 2401C. This course covers various areas of photographic study, including nonsilver and advanced silver printing techniques, offset lithography, and conceptual approaches to image making. May be repeated to a maximum of twelve semester hours.

ART 4925Cr. Media Workshop: Digital Media (3). Prerequisites: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2203C or ART 2204C. This course is an intensive study in intermediate graphic design. Course topics may include issues in word and image, typography, or image and production techniques. May be repeated to a maximum of twelve semester hours.

ART 4926Cr. Media Workshop: Electronic Media (3). This course covers electronic imaging, video, computer graphics, animation. May be repeated to a maximum of twelve semester hours.

Advanced Workshops

Note: The advanced workshops continue the intensive level of study of the media workshops while providing students with more flexibility. Under this workshop system, a student may work with any instructor, regardless of media affiliation, in any area of study. Instructors are designated by section number. Each course may be repeated to a maximum of twenty-seven semester hours. Prerequisites for all advanced workshops include the following foundation courses: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2003C or ART 2204C. Students should have completed one or more area-specific intermediate level class prior to taking advanced workshops in that area.

ART 4928Cr. Advanced Workshop (3). Prerequisites: All foundations courses. This tutorial course is available only to BFA and BA students. May be repeated to a maximum of twenty-seven semester hours.

ART 4928Cr. Advanced Workshop: Ceramics (3).

ART 4928Cr. Advanced Workshop: Digital Media (3).

ART 4928Cr. Advanced Workshop: Painting (3).

ART 4928Cr. Advanced Workshop: Photography (3).
ART 4928Cr. Advanced Workshop: Printmaking (3).
ART 4928Cr. Advanced Workshop: Sculpture (3).

ART 4929Cr. Advanced Workshop (3). Prerequisites: All foundations courses. This tutorial course is available only to BFA and BA students. May be repeated to a maximum of twenty-seven semester hours.

ART 4929Cr. Advanced Workshop: Ceramics (3).
ART 4929Cr. Advanced Workshop: Digital Media (3)
ART 4929Cr. Advanced Workshop: Painting (3).
ART 4929Cr. Advanced Workshop: Photography (3).
ART 4929Cr. Advanced Workshop: Printmaking (3).
ART 4929Cr. Advanced Workshop: Sculpture (3).

ART 4930Cr. Advanced Workshop (3). This course explores critical issues in contemporary art. Course varies each semester to cover topics of critical significance in twentieth-century contemporary art. May be repeated for a maximum of twenty-seven semester hours.

Art Related Courses

Note: Some University courses are designated art related and may be accepted toward the BFA degree with written approval from the director of the BFA program and the chair of the department. Students who wish to take art related courses that significantly contribute to their media focus should contact the department regarding requirements. Requirements are currently being reviewed.

Graduate Courses

ART 5907r. Directed Individual Study (1–4). (S/U grade only.)
ART 5927Cr. Graduate Workshop (1–4).
ART 5928Cr. Graduate Workshop (1–6).
ART 5929Cr. Graduate Workshop (4).
ART 5929Cr. Teaching Art at the College Level (1–3). (S/U grade only.)
ART 5972r. Graduate Show and Thesis (1–12). (S/U grade only).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of ART EDUCATION

College of Fine Arts

Website: http://arted.fsu.edu/

Interim Chair: Antonio C. Cuyler; **Professors:** Gussak, McRorie, Shamp, Villeneuve; **Associate Professor:** Parker-Bell, Broome, Cuyler, Rowson-Love, Van Lith; **Assistant Professors:** Fendler, Scott, Shields

Note: The undergraduate Art Education degree is no longer offered. The department offers a five-year direct-entry pathway leading to a BA in Art/MS in Art Education to prepare students for a career as an art teacher. This program enables undergraduate students who receive a bachelor's degree, with one additional year of coursework from the department of art education, to fulfill teacher certification requirements. Please contact the Department of Art Education for the requirements for this program and refer to the Department of Art Education chapter in the *Graduate Bulletin*.

The primary mission of the five-year direct-entry pathway is to prepare certified art teachers for public and private school service. Students have the opportunity to participate in the University's Florence, London, or other international programs as part of their course of studies prior to their junior year. Extensive in-school observation and participation are required.

The Department of Art Education's paradigm program is art for life. The department focuses on authentic, socially centralized teacher preparation, emphasizing studio art, critical inquiry into art and visual culture, appropriate technologies, and creative activity. Our goal is to prepare candidates who are well prepared for their roles as art educators in real-world communities.

Definition of Prefix

ARE—Art Education

Undergraduate Courses

ARE 4144. Introduction to Art Education (3). This course provides a theoretical foundation for understanding what children know and learn through artistic inquiry and expression. The course emphasizes practical application of this knowledge to curriculum development and lesson planning. Observation in the public schools is required.

ARE 4550C. Art Therapy/Special Populations (3). This course explores definitions of art therapy, the development of the discipline, the exploration of special populations, human relations, and the related concepts in art education and art therapy.

ARE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine semester hours.

ARE 4930r. Introduction to Arts Administration (3). This seminar style course introduces students to arts administration by exploring basic administration and management principles as they relate to the visual and performing arts. The course also features off-campus site visits to local arts and culture organizations and applied hands-on interaction. May be repeated to a maximum of six semester hours.

ARE 4932. Introduction to Arts Administration (3). This seminar style course introduces students to arts administration by exploring basic administration and management principles as they relate to the visual and performing arts. The course also features off-campus site visits to local arts and culture organizations and applied hands-on interactions.

Graduate Courses

ARE 5046. Art Education Theory and Practice I (3).
ARE 5047. Art Education Theory and Practice II (6).
ARE 5145. Human Development and Learning in Art (3).
ARE 5245. Program Development for Educational and Community Contexts (3).
ARE 5246. Contemporary and Historical Issues in Art Education (3).
ARE 5253. Arts in Community Engagement (3).
ARE 5256r. Visitor-Centered Exhibitions (3–6).
ARE 5257r. Visitor Studies (3–6).
ARE 5258. Museum Education (3).
ARE 5262. Principles of Arts Administration (3).
ARE 5295. Art Museum Education (3).
ARE 5304. Art in Childhood Education (3).
ARE 5358. Art for Life (3).
ARE 5382. Introduction to Counseling for Art Therapists (3).
ARE 5460. Therapeutic Use of Art Materials (3).
ARE 5551. Art Therapy and Group Counseling (3).
ARE 5552. Assessment for the Practice of Art Therapy (3).
ARE 5554. Special Populations (3).

ARE 5555. Advanced Art Therapy (3).
ARE 5558. Multicultural Issues in Art Therapy (3).
ARE 5640. Ethics and Professional Issues (3).
ARE 5641. Critical Analysis (3).
ARE 5649. Theories of Art Therapy (3).
ARE 5665. Leading the Arts Organization (3).
ARE 5745. Research Survey (3).
ARE 5865. Cultural Policy (3).
ARE 5867. Grant Writing and Development in the Arts (3).
ARE 5906r. Directed Individual Study (1–3).
ARE 5910r. Supervised Research (1–5). (S/U grade only.)
ARE 5930r. Special Topics in Art Education (1–3).
ARE 5934r. Special Topics: Art Therapy Issues (1–3).
ARE 5935r. Seminar: Current and Comparative Studies in Art Education (3).
ARE 5940. Supervised Teaching (9). (S/U grade only.)
ARE 5940L. Field Studies (1–3). (S/U grade only.)
ARE 5941. Practicum I (3).
ARE 5942. Practicum II (3).
ARE 5943. Practicum III (3).
ARE 5944r. Field Laboratory Internship (1–9). (S/U grade only.)
ARE 5950. Seminar and Professional Practices in Art Education (3).
ARE 6905r. Directed Individual Study (3). (P/F grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of ART HISTORY

College of Fine Arts

Website: *http://arthistory.fsu.edu/*
Chair: Adam Jolles; **Professors:** Freiberg, Neuman, Weingarden; **Associate Professors:** Bearor, Carrasco, Dowell, Jolles, Jones, Leitch, Neill; **Assistant Professors:** Bauer, Bick, Killian; **Instructional Support Specialist III:** Hudson; **Professors Emeriti:** Draper, Gerson, Nasgaard, Rose; **Courtesy Professors:** Berry, de Grummond, Emmerson, Lee, McLane, Pfaff, Pullen

The Department of Art History offers programs leading to the Bachelor of Arts (BA) in the history and criticism of art, the Master of Arts (MA) in the history and criticism of art, the Master of Arts (MA) in museum and cultural heritage studies, and the Doctor of Philosophy (PhD) in the history and criticism of art. The objective is to prepare the student for a professional career either in academic art history or in a related profession, including work in museums and archives, commercial galleries, and publishing.

The faculty includes specialists in Islamic art, Pre-Columbian art, Spanish Colonial and Caribbean art, Early Medieval and Byzantine art, Romanesque and Gothic art, Italian and Northern European Renaissance art and architecture, Baroque and 18th-century art and architecture, modern architecture, 19th- and 20th-century art and criticism, American art, contemporary art and critical theory, history of prints and photography, word-image studies, and museum studies. Members of the Department of Classics faculty trained in archaeology and art history offer courses in Aegean, Greek, Etruscan, Roman, and Egyptian art.

The Department of Art History is supported by a rich array of resources, including classrooms, seminar rooms, a teaching lab fully equipped for multimedia presentations, and a media center under the direction of a full-time curator. The media center houses a comprehensive collection of digital resources, including a database of more than 45,000 images. Additionally, the **School of Art and Design Library** includes over 6,500 art-related books. The University library holdings are extensive and include a rare book and facsimile collection. The library supports many electronic resources and an excellent interlibrary loan division. The resources of the Ringling Museum Library as well as those held by other state universities in Florida are also available.

The **University Museum of Fine Arts** houses several permanent collections and is used for temporary exhibitions. The University administers the **Ringling Museum** in Sarasota, with its internationally known collection of European and Asian art. Internships are available at each of the Florida State University's museums.

Students have the opportunity to pursue independent research at the Florida State University Study Centers in **Florence**, **London**, **Panama**, **Paris**, **and Valencia**. The Florence program is used extensively by students of the history of art for the study of the Italian language and arts and for archival work. The London Study Center offers opportunities for teaching assistantships and for internships at major London museums. The Paris program hosts a specialized program in art history taught by the Department of Art History faculty. Archaeological experience is available at the Etruscan and Roman sites of Cetamura del Chianti and Poggio delle Civitelle at San Venanzo, the University's field school excavations in Italy.

The department sponsors an annual **Art History Graduate Symposium** for graduate students attending universities nationwide. Students are chosen to present papers during a two-day series of meetings, and these papers may be submitted for publication in *Athanor*, a journal for graduate students in art history sponsored by the Art History Department and the College of Fine Arts. Each year a distinguished art historian is invited to participate in the symposium and to deliver the keynote address.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. In art history, undergraduate majors must satisfy this requirement by earning a grade of "C" or higher in ARH 2814 Information Technology for the Art Historian.

Oral Communication Competency

All undergraduates at Florida State University must demonstrate the ability to transmit clearly ideas and information orally in a way that is appropriate to the topic, purpose, and audience. Undergraduates must also demonstrate the ability to discuss ideas clearly with others, to listen and respond to questions, and to assess critical responses appropriately. The need for specific oral communication skills, such as formal lectures/presentations, interviewing skills, or group dynamics varies from discipline to discipline. In art history, under-

graduate majors must satisfy this requirement by earning a grade of "C" or higher in SPC 2067, Communication for Arts and Design, offered through the Department of Art History.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Art History & Appreciation

1. ART X201 (Design I, basic design) or ART X202 (Design II, 3D, methods and concepts) or ART X203 (Design II, 3D, concepts and practices) or ART X205 (Color, color and composition, color design, color theory)
2. ART X300 (Drawing I, drawing foundations) or ART X301 (Drawing II) or ART X310 (Intermediate drawing)
3. ARH X050
4. ARH X051
5. XXX XXXX: coursework in a single foreign language for nine to twelve credit hours to satisfy the foreign language competency requirement

Note: All courses except the foreign language coursework require a "C" or higher.

Major in Art History

The Bachelor of Arts (BA) program in the history and criticism of art requires a total of forty-eight semester hours of which forty-two will be in art history and six in studio art. The foundation courses (ARH 2050, ARH 2051, and ARH 3XXX World Arts Survey) provide a broad view of major artists and monuments from Western and World Art history and are to be taken as early as possible. Majors are required to take an additional nine upper-level courses, one of which must be in World Arts. Two of the nine courses must be seminars in art history (ARH 4800), prior to which fifteen credit hours in art history must be completed. Only a grade of "C" or better is acceptable for courses in Art History to be credited toward the major. Students must also satisfy the University language requirement for the BA degree. Art History majors satisfy the University Oral Competency and Computer Skills Competency with SPC 2067 and ARH 2814, respectively.

Honors in the Major

The Department of Art History offers honors in the major to those who wish to pursue an extended independent research project. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Minor in Art History

A minor in art history requires fifteen semester hours of coursework in the department. The student may choose any five art history courses in completing this requirement.

Minor in Medieval Studies

The undergraduate minor in medieval studies provides students with focused, interdisciplinary training in the culture of the pre-modern era in the lands of Europe, both West and East, as well as the cultures of the Middle East. The minor will consist of fifteen semester hours beyond the liberal studies and major requirements. The selection of a pair of courses in one of the following fields of concentration provides a focus for the minor: medieval art history (two ARH courses from an approved list); medieval history (two EUH courses from an approved list); and medieval texts and cultures (one ENL and one modern languages course from an approved list). Having established a concentration in one medieval field, the student then chooses three more courses from an approved list. These courses are to be distributed over two or three departments other than that of his/her concentration. Additional courses are certified on a semester-by-semester basis. Qualified students also may enroll in certified graduate-level courses for minor credit, with permission of the instructor.

Minor in Museum Studies

A minor in museum studies requires fifteen semester hours. Of these, six semester hours are in museum studies courses, three hours are in a related elective, and the remaining six hours are taken in supervised internship. Students with a minor in museum studies may not apply any internship hours toward the major in Art History.

Definition of Prefix

ARH—Art History
IDH— Interdisciplinary Honors
IDS—Interdisciplinary Studies
SPC—Speech Communication

Undergraduate Courses

ARH 2000. Art, Architecture, and Artistic Vision (3). This course focuses on a thematic approach to the understanding and appreciation of works of art.

ARH 2050. History and Criticism of Art I (3). This course is an introductory survey from prehistoric through late-Medieval art history.

ARH 2051. History and Criticism of Art II (3). This course is an introductory survey from early Renaissance through modern art history including developments in American art.

ARH 2581. Survey of "Tribal Arts" Past and Present (3). This course studies the non-Western arts as tools for interacting with other people, or with environmental or universal forces.

ARH 2814. Information Technology for the Art Historian (3). Prerequisite: Admission to the Art History major. This course introduces students to computer-based research, writing, and presentation tools essential in art history.

ARH 3130. Survey of Greek Art and Archaeology (3). This course reviews the major accomplishments in Greek art from early times through the Hellenistic period through a survey of principal monuments, works, and archaeological evidence.

ARH 3150. Art and Archaeology of Ancient Italy (3). This course is a survey of Italian art and archaeology including early Italy, the Etruscans, and Rome with reference to the major monuments, works, and archaeological evidence.

ARH 3405. Contemporary Art in Public Spaces (3). Prerequisites: ART 1000, ART 1201C, ART 1203, ART 1300C, ART 1602C, and ART 2204C. This undergraduate survey course addresses key conceptual issues regarding the functions and siting of contemporary public art, providing students with a working knowledge of the relevant critical literature. Students also learn the basic components of writing a public art project proposal.

ARH 3515. History of African Art (3). This course surveys the history of African art, covering numerous regions of the vast continent. Students examine artistic expressions and visual traditions in the Sahara; along the Nile, Congo, and Niger rivers; in the Central and Western Sudan; the Atlantic Forests; the Cameroon grasslands; and eastern and southern Africa, among others. The course covers a range of visual and material expressions, including painting, sculpture, architecture, costuming, ritual implements, cultural landscapes, and ephemera.

ARH 3530. The Arts of Asia (3). This course is a general introduction to the visual arts of Asia, covering primarily India, central Asia, China, and Japan. The course is organized along thematic lines, with topics such as the ancient world, Buddhism, Chinese aesthetic theory and painting, and native and foreign currents in Japanese art.

ARH 3572. History of Islamic Art (3). This course surveys the history of Islamic Art, covering numerous cultures on several continents. Students examine the development of artistic expressions and visual traditions in Egypt, Israel, Jordan, Saudi Arabia, Syria, Iran, Iraq, Turkey, and Spain.

ARH 3612. Visual Cultures of the Americas (3). This course in an introductory survey of the visual and material culture of the Americas from the archaic period to the present.

ARH 3794. Museum Basics: History and Theory (3). This course introduces students to the history and theory of museums and museum practices, museum administration, exhibition planning, museum education, and museum careers.

ARH 3854. The Museum Object (3). Prerequisite: ARH 3794. The course covers the philosophy and practice of acquiring, processing, preserving, displaying, and interpreting museum objects. Material culture and the museum objects are addressed from the perspective of various disciplines, such as art history, archaeology, anthropology, history, and the natural sciences. Hands-on experience is gained in designing and executing an exhibition of the students' conception.

ARH 3930r. Special Topics (1–3). May be repeated to a maximum of six semester hours.

ARH 4067. History of Modern Architecture (3). This course traces the major shifts in architectural thinking and design from the 19th to 21st centuries. While focused on European and American debates and movements, the course makes links to the architectural implications of Western territorial ambitions in the colonies such as the Indian subcontinent, the Muslim heartland, and North Africa.

ARH 4110. Art and Archaeology of the Bronze Age in the Aegean (3). This course studies the major archaeological evidence related to the Bronze Age in Crete and Greece; the major sites, monuments, and artistic works.

ARH 4118. Archaeology of Ancient Egypt (3). This course surveys the archaeology and art of ancient Egypt from the Pre-dynastic to the Ptolemaic and Roman periods. An emphasis is placed on the art, architecture, and culture of the Old and New Kingdoms.

ARH 4120. Etruscan Art and Archaeology (3). This course is a study of Etruscan culture, art, and archaeology.

ARH 4131. Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3). This course surveys the accomplishments of classical Greek art through an examination of the monuments, works, and archaeological evidence.

ARH 4151. Art and Archaeology of the Early Roman Empire (3). This course examines Roman art and archaeology from Augustus through the Antonines with a survey of the major artistic accomplishments and the archaeological remains.

ARH 4154. Archaeology of the Late Roman Empire (3). This course comprises a study of Roman art and archaeology from the second to sixth century CE with emphasis on important sites and monuments.

ARH 4173r. Studies in Classical Archaeology and Art (3–9). This course studies specific aspects of the archaeology and art of Greece and Italy. May be repeated to a maximum of nine semester hours.

ARH 4210. Early Christian and Byzantine Art (3). This course explores Byzantine art and architecture from the rise of Christianity in the second and third centuries to the end of the sixth century. Emphasis is placed on how imperial rulers used art to further their political and religious agendas.

ARH 4211. Early Medieval Art (3). Prerequisite: ARH 3056 or instructor permission. This course explores the development of the uses of art in the European Middle Ages, from Barbarian metal work to the acceptance of the classical tradition, to the first mature pan-European art of Romanesque architecture and sculpture. Topics of special interest include pilgrimage, imperial imagery, manuscripts, and monasteries.

ARH 4212. Late Antique and Early Christian Art (3). This course focuses on the art and architecture produced in Late Antiquity, a time of transition from the Roman and Medieval periods. Emphasis is on the processes of transmission, adoption, and adaptation of established iconographies and architectural forms from Jewish and pagan arts to serve the needs of the newly established Christian religion.

ARH 4230. Later Medieval Art (3). Prerequisite: ARH 3056 or instructor permission. This course covers what is generally called Gothic art, including the cathedrals and their sculpture built by bishops and towns, as well as the castles, sumptuous arts, and manuscripts commissioned by princes and lords. Topics of special interest include the Black Death, devotional art, civic expression, and the arts of the courts.

ARH 4301. Cosmopolitan Renaissance (3). Prerequisite: ARH 2050 or ARH 2051. This course examines artistic exchange in painting, sculpture, and printmaking in continental Europe during the Renaissance.

ARH 4304. History of Renaissance Architecture (3). Prerequisite: ARH 3057 or instructor permission. This course is a survey of 15th- and 16th-century architecture in Italy with emphasis on works by Brunelleschi, Alberti, Bramante, Michelangelo, and Palladio. Discussion centers on how the major architectural types developed and why, including: churches, city palaces, public piazzas, and country villas. Particular attention is paid to the impact of antiquity and the emergence of urban planning.

ARH 4310. Early Italian Renaissance Art: 15th Century (3). Prerequisite: ARH 3057 or instructor permission. This course examines how social and historical issues influenced the arts during the first great cultural flowering of the Renaissance in Florence, Rome, and Venice. Discussion centers on how the requirements of the patron, the vitality of local traditions, and the interaction among the arts all contributed to the creation of the new Renaissance vocabulary.

ARH 4312. Later Italian Renaissance Art: 16th Century (3). Prerequisite: ARH 3057 or instructor permission. This course examines works by the great masters of the Renaissance, including Leonardo da Vinci, Michelangelo, and Titian, against the backdrop of the social and political realities of the day. Discussion includes the rise of the artist-hero, the sources and meaning of Mannerism, and the impact of the religious controversies of the age.

ARH 4331. Northern European Renaissance Art (3). Prerequisite: ARH 3057 or instructor permission. This course focuses on developments in northern European 15th- and 16th-century art with emphasis on painting and printmaking: Flemish, French, German, and Dutch artists.

ARH 4352. Southern Baroque Art (3). Prerequisite: ARH 3057 or instructor permission. This course investigates painting, sculpture, and architecture in Italy and Spain during the 17th century, stressing the theatrical, ecstatic, and virtuoso character of works produced for royalty, the Church, and the rising middle class by such masters as Caravaggio, Bernini, and Velázquez.

ARH 4353. Northern Baroque Art (3). Prerequisite: ARH 3057 or instructor permission. This course examines the Golden Age of painting, sculpture, and architecture in France, England, and the Netherlands, showing how such figures as Rembrandt and Vermeer encoded meaning in works of detailed realism and contributed to the rise of new subjects in art, including still life, landscape, and portraiture.

ARH 4355. 18th-Century Art (3). Prerequisite: ARH 3057 or instructor permission. This course studies painting, sculpture, and architecture produced in Western Europe during the Enlightenment, with emphasis on the luxurious, sensual art of the Rococo, the rational classicism of the Palladian Revival, the new moral and philosophical image of women, and the rise of the decorative arts.

ARH 4372. Spanish Colonial Art: The Hapsburg Period, 1492/1506–1700 (3). Prerequisite: ARH 3057 or instructor permission. This course surveys the art, architecture, and visual culture of Spain's overseas colonies during the period of early exploration and Austrian Hapsburg rule in Spain (1506–1700). It examines a wide array of visual expressions, including painting, sculpture, architecture, urban space, prints, ephemera, ceramics, furniture, and clothing. In the course of this survey, the relationship between art and such issues as colonialism, race, gender, and social hierarchy are considered.

ARH 4413. Spanish Colonial Art: The Bourbon Period, 1700–1821/1898 (3). Prerequisite: ARH 3057 or instructor permission. This course surveys the art, architecture, and visual culture of Spain's overseas colonies during the period of Bourbon imperial rule (1700–1821/1898). It examines a wide array of visual expressions, including painting, sculpture, architecture, urban space, prints, ephemera, ceramics, furniture, and clothing. In the course of this survey, the relationship between art and issues such as colonialism, race, gender, and social hierarchy are considered.

ARH 4414. Modern European Art: Neoclassicism through Impressionism (3). Prerequisite: ARH 3057 or instructor permission. This course treats European art from 1780–1880, concentrating on the evolving dialogue between academic and anti-academic practices through an investigation of the relationship between theory, criticism, and techniques of representation. Topics of inquiry include: David and Neo-classicism; British landscape painting; Delacroix and French Romanticism; Courbet's Realism and Manet's Naturalism; and French Impressionism.

ARH 4416. Paris Avant-Garde (3). Prerequisite: ARH 3057. This course examines the art of the avant-garde in France from 1800 through the middle of the twentieth century. The course focuses on select themes related to the urban culture and intellectual currents that shaped contemporary art and its public reception in the modern era. All classes are taught in museums and at historical sites.

ARH 4450. Modern European Art: Post-Impressionism through Surrealism (3). Prerequisite: ARH 3057 or instructor permission. This course covers the development of art from 1880 to 1940. Topics of discussion include abstraction, Symbolism, Surrealism, as well as the relationship between the techniques and forms of abstract representation and contemporary philosophical, social, scientific, and political events. The writing of artists and critics provides the basis for this inquiry.

ARH 4540. Arts of India (3). This course offers an introduction to the visual culture of South and Southeast Asia with an emphasis on the Indian Subcontinent. The course examines the role that artistic production has played in the transmission of religious beliefs and the development of cultural systems from the Indus Valley to the present day. Students are encouraged to explore the forms and functions of art in a variety of media, including but not limited to architecture, urban form, sculpture, painting, and performance.

ARH 4551. Arts of China (3). This course introduces the visual arts of China, covering the Neolithic to the modern period. The framework for the course is both chronological and thematic, with special emphasis on how the Chinese have viewed themselves and the world in different periods, and how this has been expressed in their arts. Topics include ancient China, the introduction of Buddhism, aesthetic theory and painting, and masters of landscape.

ARH 4554. Arts of Japan (3). This course introduces the visual arts of Japan, covering the ancient to the modern period. The framework for the course is both chronological and thematic, with particular focus on the relationship between culture and the visual arts. Among the topics covered are ancient Japan, Japanese aesthetics, Buddhist art, the rise of the samurai, garden architecture and tea ceremony, castle decoration, and the world of ukiyo-e.

ARH 4571. Islamic Art and Architecture, 7th - 21st Centuries (3). This course surveys the art and architecture of the Islamic world from its early days in the mid-seventh century to the present day. While the concept "Islamic world" is both vague and vast, stretching from Spain to Indonesia and beyond, the course focuses on several geographic areas to explore the visual culture produced by Muslims.

ARH 4620. U.S. Art: Centennial through Late Modernism (3). Prerequisites: ARH 3057 or instructor permission. This course surveys painting, sculpture, architecture, photography, and material culture from 1876 to the 1950s, reflecting regional and multicultural responses to questions of subjectivity and modernity such as "What is 'American' about our country and its art?" The course also explores how developing a national identity in this culture was a central concern during this period.

ARH 4621. U.S. Art: Colonial Era to the Centennial (3). Prerequisites: ARH 3057 or instructor permission. This course examines an emerging national identity as reflected and developed in the arts and material culture from the Colonial period to 1876 using concepts from European images of "discovery" to conceptions of national culture presented to visitors at the Philadelphia Centennial. The course content is multicultural and includes discussions of women's contributions.

ARH 4642. Art after 1940 (3). Prerequisite: ARH 3057 or instructor permission. This course covers American and European art from Abstract Expressionism to the present. The course examines the reactions against Abstract Expressionism and investigates late-modernist practices (e.g., Pop Art, Minimalism, Conceptualism, Earth Art, Performance Art). Topics discussed include contemporary artistic practices and the relationship between "modernism" and "postmodernism".

ARH 4653. Great Traditions in Mesoamerican Art and Culture (3). This course introduces the art and architecture of Mesoamerica from the rise of the Olmec (1500 BC) to the Spanish conquest of the Aztec capital of Tenochtitlan. Focus is placed on how changes in visual culture reflect larger religious and political transformations.

ARH 4675. The Art and Culture of the Maya (3). This course examines the art and culture of the Maya from approximately 350 BC to the present, focusing primarily on the Classic period (AD 250–900). This course highlights the role of art in Maya religion, politics, and ritual, addressing both the Maya conception of time and their hieroglyphic script. The class examines a range of media in which the Maya worked, including architecture, sculpture, ceramic painting, calligraphic monuments, and primary texts in translation, such as the Popol Vuh.

ARH 4710. History of Photography (3). This course surveys the history of photography from its invention in the 1830s up to the present. It addresses the historical development of the medium both topically and chronologically, focusing on photography's global reach and its diverse array of social functions. Topics include historical debates about photography's status as art; commercial and scientific applications; advertising and fashion photography; photojournalism and propaganda; the rise of amateur photography; and contemporary trends and practices. Prior experience in photography is not required.

ARH 4720. History of Graphics (3). Prerequisite: ARH 3057 or instructor permission. This course surveys artists and processes in Western printmaking from the 15th century through the 20th century.

ARH 4772. Japanese Animation (3). This course follows the history of Japanese animation from the early 20th century to the present time, with special focus on the contemporary period. The course investigates not only the richness of what is commonly referred to as *anime*, but also *anime's* various origins in Japan and abroad.

ARH 4800r. Methods of Art History and Criticism (3). Prerequisites: ARH 2051, ARH 3056, ARH 3057, and twelve prior credit hours in upper-level art history. This course is an undergraduate seminar in art history with changing topics. May be repeated to a maximum of twelve semester hours.

ARH 4810. Art History Methods and Media (3). Prerequisites: ARH 3056, ARH 3057, twelve prior credit hours in upper-level art history, and instructor permission. This seminar is designed for undergraduate art-history majors who plan to continue at the graduate level. The seminar introduces art media and research methods.

ARH 4815r. Honors Work in Art History (1–6). This course requires a written thesis. May be repeated to a maximum of nine semester hours, subject to approval of faculty advisor.

ARH 4846. Museums of Paris (3). Prerequisite: ARH 3057. This course introduces students to the history of museums and to debates on the philosophical nature of museums. The course surveys the history of the French nation, from antiquity to the present, from the perspectives of its museums and monuments.

ARH 4876. Global Women's Art (3). This course covers global women's art in the 20th and 21st centuries, with investigations into women's painting, sculpture, installation, performance, photography, film, and multimedia, often challenging conventional perceptions of gendered roles to reshape possibilities for themselves and their communities. The course also includes coverage of immigrant and exiled women's contributions to the arts in the United States.

ARH 4882. Visual Cultures of the African Diaspora (3). Prerequisite: ARH 3057 or instructor permission. This course engages the visual cultures of the African Diaspora with geographic attention to the contemporary nations of Cuba, Haiti, Brazil, Puerto Rico, the Bahamas, and Jamaica. After background on the visual cultures of West Africa, particularly those of Yoruba origin, we discuss the transformative impact of Atlantic World slavery and colonial institutions on African traditions. We consider the material and visual landscapes of new African ethnic formations in the Americas in relation to slavery, religious institutions, such as confraternities, ritual life, and the formation of symbolic economies. We then investigate how various religious traditions and their attendant visual cultures were remade in the post-slavery era.

ARH 4884. Walt Disney and the American Century (3). This course considers Disney and his company in relation to art, society, and politics during the twentieth century. Special attention is paid to Disney's contributions in the realms of film, architecture, and theme park. Through assigned readings and visual material such as cartoons, slides, and documentaries, the course assesses the relationship between high art and popular art and evaluates Disney's impact on the production and consumption of leisure.

ARH 4905r. Directed Individual Study (3).

ARH 4933r. Special Topics in Art History (3). This course is an undergraduate, upper-level lecture course in art history with changing topics. May be repeated to a maximum of twelve semester hours.

ARH 4941r. Internship in Museum Studies (3–12). This course is an internship in a collaborative museum to provide students with firsthand knowledge of, and practical experience in, museums. May be repeated to a maximum of twelve semester hours, only three of which may be applied toward the major in art history. May be repeated within the same semester.

IDH 2103. Museums: Three Promises for Humanity (3). Prerequisite: Admission to the honors program. This course provides an in-depth view of museums and their commitment to learning, equality, and social advancement. The seminar traces the development of museums from early traditions through the paradigm shift of the past two decades that has produced uniquely humanistic and socially responsible institutions. Through investigations of museum environments and interaction with museum professionals, the class examines how museums can build a healthy, safe, and meaningful future for diverse regional and global communities.

IDS 2678. Apocalypse: The End of the World in the Arts (3). This course studies how the end of the world represented in the arts from the Early Christian and medieval periods to the present. Students analyze book and manuscript illustrations, films, paintings, plays, religious texts, and visionary poems to determine why and how people think the world will end and how they express these expectations in powerful works of art.

IDS 3168. Walt Disney's America (3). This course posits the questions "Who was Walt Disney, and how did he create an empire that continues to affect us profoundly today?" To answer these questions, students critically examine the two principal media in which Disney pioneered: the animated film and the theme park.

SPC 2067. Communication for Arts and Design (3). This course provides majors in the College of Fine Arts with a course designed to fulfill the university's oral communication requirement using examples drawn from a diverse range of artistic contexts.

Graduate Courses

ARH 5068. History of Modern Architecture (3).
ARH 5076. Word and Image Studies (3).
ARH 5111. Art and Archaeology of the Bronze Age in the Aegean (3).
ARH 5119. Archaeology of Ancient Egypt (3).
ARH 5125. Etruscan Art and Archaeology (3).
ARH 5140. Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3).
ARH 5160. Art and Archaeology of the Early Roman Empire (3).
ARH 5174r. Studies in Classical Art and Archaeology (3).
ARH 5220. Early Christian and Byzantine Art (3).
ARH 5221. Early Medieval Art (3).
ARH 5222. Medieval Illustrated Manuscripts (3).
ARH 5223. Late Antique and Early Christian Art (3).
ARH 5240. Later Medieval Art (3).
ARH 5321. Early Italian Renaissance Art: 15th Century (3).
ARH 5322. Later Italian Renaissance Art: 16th Century (3).
ARH 5340. Northern European Renaissance Art (3).
ARH 5360. Southern Baroque Art (3).
ARH 5361. Northern Baroque Art (3).
ARH 5363. 18th-Century Art (3).
ARH 5420. Modern European Art: Neoclassicism through Impressionism (3).
ARH 5445. Modern European Art: Post-Impressionism through Surrealism (3).
ARH 5556. Arts of Japan (3).
ARH 5558. Arts of China (3).
ARH 5575 Islamic Art and Architecture, 7th - 21st Centuries (3).
ARH 5605. Native American Arts and Architecture of the Southwest (3).
ARH 5625. American Art before 1940 (3).
ARH 5648. Art after 1940 (3).
ARH 5659. Great Traditions in Mesoamerican Art and Culture (3).
ARH 5715. History of Photography (3).
ARH 5725. History of Graphics (3).
ARH 5797. Seminar in Museum Studies (3).
ARH 5799. Cultural Heritage Theory and Practice (3).
ARH 5806r. Seminar in the History and Criticism of Art (3).
ARH 5813. Seminar in the Methods of Art History (3).
ARH 5838. The Museum Object (3).
ARH 5864. Methods and Theory for the Study of World Arts (3).
ARH 5885. Introduction to Appraising Personal Property (4).
ARH 5886. Uniform Standards of Professional Appraisal Practice (USPAP) (4).
ARH 5887. Walt Disney and the American Century (3).
ARH 5907r. Directed Individual Study (1–5).
ARH 5913r. Supervised Research (1–15). (S/U grade only.)
ARH 5940r. Supervised Teaching (1–15). (S/U grade only.)
ARH 5942r. Internship in Museum Studies (1–6).
ARH 6292r. Topics in Medieval Art: Seminar (3).
ARH 6394r. Topics in Renaissance Art: Seminar (3).
ARH 6398r. Topics in Baroque Art: Seminar (3).
ARH 6592r. Topics in Eastern Art: Seminar (3).
ARH 6694r. Topics in 19th-Century Art: Seminar (3).
ARH 6695r. Topics in 20th-Century Art: Seminar (3).

ARH 6718. Documentary Photography and Film (3).
ARH 6904r. Readings for Examinations (1–12). (S/U grade only.)
ARH 6920r. Teaching Colloquium in Art History (1–12). (S/U grade only.)
ARH 6936. Topics in World Arts: Seminar (3).
ARH 6937r. Doctoral Seminar in Classical Archaeology (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

ARTS ADMINISTRATION, CENTER FOR
see *Graduate Bulletin*

Undergraduate Program in ASIAN STUDIES

College of Social Sciences and Public Policy

Website: *https://coss.fsu.edu/asianstudies*
Director: Lee Metcalf (Social Sciences); **Director of Undergraduate Studies:** Whitney Bendeck (Social Sciences); **Director of International Economic Education:** Onsurang Norrbin (Economics); **Director of Internships and Professional Development:** Na'ama Nagar (Political Science)

The Program in Asian Studies is an international area-studies program that is designed to develop a student's competence in the language, history, culture, and the contemporary political and economic setting of a particular country or cultural region. This area-studies program is focused on Asia, broadly defined as including East Asia, South Asia, and the Middle East. A major or minor in this program serves the needs of: (1) general liberal arts students who wish to learn more about these important areas of the world; (2) students who wish to pursue graduate work in these or related fields; and (3) students who seek employment in or related to Asia. The program combines area- or country-specific courses with more general comparative courses that provide students with the necessary intellectual tools, concepts, and theories to make sense out of their particular disciplinary concentrations. Students are to select language and thematic specializations in line with their intellectual interests and career goals and design their program of studies accordingly.

In addition to the regular major in Asian studies, the program also offers a second option designed for students who want to combine linguistic, cultural, and other relevant knowledge of Asia with business skills. Students electing this option will take a significant proportion of their coursework in the College of Business. This option is intended to prepare students for a career that capitalizes on their knowledge of Asia.

The undergraduate program in Asian studies is administered through the College of Social Sciences and Public Policy. Students interested in either of these degree program options should consult with the Director of Asian Studies.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Asian Studies satisfy this requirement by earning a grade of "C–" or higher in any course at FSU which meets the liberal studies computer competency designation, though it is strongly recommended that students take either CGS 2060 or CGS 2100 in order to satisfy this requirement.

Requirements

Asian Studies Major

Students majoring in the program are to construct their study program around three components: (1) a language requirement, (2) an area-specific coursework requirement, and (3) a concepts and theories requirement. The total hour requirements for the major are thirty-six semester hours beyond the liberal studies requirements with a grade of "C–" or better in each of the Asian studies courses. As this is an interdisciplinary program, no minor is required.

In addition to a 2.0 overall GPA, all students must meet "mapping" requirements. See *http://www.academic-guide.fsu.edu* for more information.

Language Requirement

All students are also required to complete relevant area language coursework to the intermediate level or demonstrate proficiency to the intermediate college level in Chinese, Japanese, Arabic, or some other Asian language. Students will be encouraged to bring their chosen language up to an effective level of proficiency in reading, writing, and speaking by either taking additional coursework on the campus of Florida State University or by participating in a semester- or summer-abroad program in their relevant cultural area as such programs become available. These programs should be administered by, affiliated with, or approved by Florida State University. To encourage the achievement of language proficiency, language coursework hours taken beyond the twelve semester hour minimum or demonstrated intermediate college-level proficiency may be counted toward the required thirty-six semester hours for the major.

Area Specific Course Requirement

Students are to select at least twenty-four semester hours of area specific coursework from the approved area-specific courses listed below. Note that

special topic area-specific courses may be approved from time to time; for the most current list, students are encouraged to view the term-specific courses posted on their *International Studies* Canvas site and available in the advising office in *105 Bellamy* and the program office in *211 Bellamy*.

Concept and Theory Course Requirement

Students are to select at least six semester hours of coursework from among the concept and theory courses listed below. Students should carefully select these courses in consultation with their academic advisor, to ensure that the courses meet any required prerequisites for the approved courses.

Additional Course Requirement

The remaining six credit hours may be selected from any approved Asian Studies course and/or an approved internship (INR 4941).

Asian Studies Major with an Emphasis in Business

This degree program combines the regular Asian Studies major with a planned series of economics and business courses. The requirements for this degree are to complete relevant area language coursework to the intermediate level or demonstrate proficiency to the intermediate college level in Chinese, Japanese, Arabic, or another approved Asian language, twenty-one semester hours in Asian studies coursework, and fifteen semester hours in multinational business courses. The Asian studies coursework is to be selected from the area specific courses. With this degree there is no concepts and theories requirement. Students are also to select between two fifteen semester hour business coursework options listed below, an international marketing/management track or an international finance track. The prerequisites for both tracks include ECO 2013 and 2023, which may be taken as part of the student's liberal studies requirements. In addition, students opting for the international finance track must complete ACG 2021 as a prerequisite. Students should seek advising from the Asian Studies program advisor in *211 Bellamy* about registering for business courses.

International Marketing/Management

MAN 3240 Organizational Behavior
MAN 3600 Multinational Business Operations (Prerequisites: ECO 2013, ECO 2023)
MAR 3023 Basic Marketing Concepts (Prerequisite: ECO 2023)

And six hours selected from:

MAN 4401 Management of Labor and Industrial Relations (Corequisite: MAN 3240)
MAN 4605 Cross-Cultural Management (Prerequisite: MAN 3240)
MAN 4680 Selected Topics in International Management (Prerequisites: ECO 2013, ECO 2023, MAN 3600)
MAN 4701 Business and Society (Prerequisite: MAN 3240 or MAN 3025)
MAR 4156 Multinational Marketing (Prerequisites: MAR 3023, MAN 3600)

Or another related course approved by the Asian Studies program director

International Finance

FIN 3244 Financial Markets, Institutions, and International Finance Systems (Prerequisites: ACG 2021, ECO 2013)
FIN 3403 Financial Management of the Firm (Prerequisites: ACG 2021, ECO 2023)
MAN 3600 Multinational Business Operations (Prerequisites: ECO 2013, ECO 2023)

And six hours selected from:

FIN 4424 Problems in Financial Management (Prerequisites: CGS 2518, FIN 3244, FIN 3403)
FIN 4504 Investments (Prerequisites: CGS 2518, FIN 3244, FIN 3403)
FIN 4514 Security Analysis and Portfolio Management (Prerequisites: CGS 2518, FIN 4504)
FIN 4604 Multinational Financial Management (Prerequisites: CGS 2518, FIN 3244, FIN 3403)
GEB 4455 Perspectives on Free Enterprise (Prerequisites: FIN 3244, FIN 3403)

Or another related course approved by the Asian Studies program director

Study Abroad

While it is not required, students majoring in Asian Studies are strongly encouraged to study abroad. The Summer programs in China, Indonesia, and Thailand offer relevant course work. See *http://international.fsu.edu/* for more information on the various options available through Florida State International Programs.

Students should consult with the Asian Studies Director about any other study abroad programs they wish to pursue. Coursework taken in overseas locations must be approved in advance for credit toward the major.

Internship

The Asian Studies program encourages students to take advantage of internships with an area focus. Information on possible placements can be found on the *International Studies* Canvas site. All internships must be approved the semester before the internship takes place. See the Asian Studies program advisor in *211 Bellamy* for further information.

Honors in the Major

The program in Asian Studies offers honors in the major to encourage talented juniors and seniors to undertake independent and original work as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Second Majors

Majors in Asian Studies may pursue a second major. When students pursue a second major, they may count six semester hours of coursework toward both majors.

Minor in Asian Studies

Students pursuing a minor in the program must complete eighteen semester hours of Asian studies coursework beyond the liberal studies requirement. In this case none of the broader comparative concepts and theories courses will count toward the eighteen semester hour minimum. Students may select freely from all area-specific courses. Modern language courses numbered above 2999 may count toward the minor. Nine of the eighteen semester hours must be numbered above 2999. A maximum combined total of six semester hours in internship or directed individual study may apply to the minor.

Approved Courses

Note: Descriptions of specific courses can be found under the individual departments in which they are taught. In addition to the courses listed below, special topics courses may be approved by the program director in any particular term. These courses appear on the term course lists and are available at the *International Studies* Canvas site, the advising office in *105 Bellamy*, and the program office in *211 Bellamy*.

Area Specific Courses (twenty-four credit hours)

ABT 3520 Arab Culture and Civilization (3)
AMH 3544 The United States and Vietnam, 1941–1975 (3)
ANT 4175 Archaeology of the Islamic World (3)
ANT 4363 Japanese Society and Culture (3)
ARH 3530 The Arts of Asia (3)
ARH 4540 Arts of India (3)
ARH 4551 Arts of China (3)
ARH 4554 Arts of Japan (3)
ARH 4571 Islamic Art and Architecture, 7th-21st Centuries (3)
ASH 1044 Middle Eastern History and Civilization (3)
ASH 3100 History of Asia (3)
ASH 3200 History of the Ancient Near East (3)
ASH 3230r Middle East Survey: An Interdisciplinary and Introductory Course (3–6)
ASH 3382 The History of the U.S. and East Asia: 1850 to the Present (3)
ASH 4223 Modern Middle East (3)
ASH 4261 Central Asia (3)
ASH 4520 Traditional India (3)
ASH 4550 Modern India (3)
CHI 3240 Chinese Reading and Conversation (3)

CHI 3404 Chinese Calligraphy and Poetry (3)
CHI 3420 Chinese Grammar and Composition (3)
CHI 3422 Chinese Grammar and Composition II (3)
CHI 3440 Business Chinese (3)
CHI 3501 Readings in Chinese Short Stories and Essays (3)
CHI 4400 Chinese-English Translation (3)
CHI 4411 Advanced Chinese II (3)
CHI 4503 Readings in Chinese History (3)
CHI 4930 Special Topics (3)
CHT 3123 Pre-Modern Chinese Literature and Culture (3)
CHT 3124 Modern Chinese Literature (3)
CHT 3391 Chinese Cinema and Culture (3)
CHT 3392 Writing Women in Pre-Modern China (3)
CHT 3930 Topics in Chinese Literature (3)
CPO 3403 Comparative Government and Politics: The Middle East (3) [with CPO 2002 as a prerequisite]
CPO 3520 Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3) [with CPO 2002 as a prerequisite]
CPO 3541 Politics of China (3) [with CPO 2002 as a prerequisite]
CPO 3553 Politics of Japan (3) [with CPO 2002 as a prerequisite]
ECS 3200 Economics of Asia (3) [with ECO 2013 and ECO 2023 as prerequisites]
INR 4274 Studies in International Politics: The Middle East (3) [with INR 2002 as prerequisite]
JPN 2300 Review Grammar and Syntax (3)
JPN 3202 Readings in Short Stories and Essays (3)
JPN 3250 Practical Skills in Japanese Communication (3)
JPN 3301 Kanji Drill (3)
JPN 3302 Kanji Drill II (3)
JPN 4930 Special Topics (3)
JPT 3391 Japanese Film and Culture (3)
JPT 4020 Japanese Calligraphy (1)
JPT 4310 Japanese Manga (3)
JPT 4504 The Culture of Tea in Japan (3)
MUH 4571 Music of Indonesia (3)
MUH 4572 Music of Japan (3)
MUN 2800 World Music Ensemble (1)
REL 2315 Religions of South Asia (3)
REL 2350 Religions of East Asia (3)
REL 3333 Ramayana in Indian Culture and Beyond (3)
REL 3337 Goddesses, Women and Power in Hinduism (3)
REL 3340 The Buddhist Tradition (3)
REL 3358 Tibetan and Himalayan Religions (3)
REL 3363 Islamic Traditions (3)
REL 3367 Islamic Traditions II: Islam up to the Modern World (3)
REL 4335 Modern Hinduism (3)
REL 4357 Classical Tibetan (3)
REL 4359 Special Topics in Asian Religions (3)

Note: See course descriptions for required prerequisites.

Concept and Theory Courses (six credit hours)

Recommended Prerequisite Social Science-Concepts and Theories

CPO 2002 Introduction to Comparative Government and Politics (3)
ECO 2013 Principles of Macroeconomics (3)
ECO 2023 Principles of Microeconomics (3)
INR 2002 Introduction to International Relations (3)

Other Concepts and Theories

ANT 2410 Introduction to Cultural Anthropology (3)
ANT 3212 Peoples of the World (3)
ANT 3610 Language and Culture (3)
ANT 4241 Anthropology of Religion (3)
ARH 2000 Art, Architecture, and Artistic Vision (3)
ARH 3056 History and Criticism of Art I (3)
ARH 3057 History and Criticism of Art II (3)
CPO 3034 Politics of Developing Areas (3) [with CPO 2002 as a prerequisite]
CPO 3703 Comparative Democratic Institutions (3) [with CPO 2002 as a prerequisite]
CPO 3743 States and Markets (3) [with CPO 2002 as a prerequisite]
ECO 3303 History of Economic Ideas (3)
ECO 4704 International Trade (3) [with ECO 2013 and ECO 2023 as prerequisites]
ECO 4713 International Finance (3) [with ECO 2013 and ECO 2023 as prerequisites]
ECS 3003 Comparative Economic Systems (3) [with ECO 2013 and ECO 2023 as prerequisites]
GEA 1000 World Geography (3)
GEO 1400 Human Geography (3)
GEO 3502 Economic Geography (3)
GEO 4421 Cultural Geography (3)
GEO 4471 Political Geography (3)
HUM 3321 Multicultural Dimensions of Film and 20th-Century Culture (3)
INR 3004 Geography, History, and International Relations (3) [with INR 2002 as prerequisite]
INR 3084 Terror and Politics (3) [with INR 2002 as prerequisite]
INR 3502 International Organization (3) [with INR 2002 as prerequisite]
INR 3603 Theories of International Relations (3) [with INR 2002 as prerequisite]
INR 4011 Politics of Globalization (3) [with INR 2002 as prerequisite]
INR 4075 International Human Rights (3) [with INR 2002 as prerequisite]
INR 4078 Confronting Human Rights Violations (3) [with INR 2002 as prerequisite]
INR 4083 International Conflict (3) [with INR 2002 as prerequisite]
INR 4102 American Foreign Policy (3) [with INR 2002 as prerequisite]
INR 4124 Statecraft (3) [with INR 2002 as prerequisite]
INR 4334 American Defense Policy (3) [with INR 2002 as prerequisite]
INR 4702 Political Economy of International Relations (3) [with INR 2002 as prerequisite]
MUH 2051 Music in World Cultures (3)
PAD 3003 Public Administration in American Society (3)
PAD 4301 Disaster Management Planning for Urban Poor Communities (3)
PAD 4374 Introduction to Terrorism: Preparedness and Response (3)
PAD 4375 Advanced Topics in Terrorism (3) [with PAD 4374 as a prerequisite]
PAD 4831 International Conflicts and Terrorism (3)
PAD 4833 International and Comparative Disaster Management (3)
PHI 2010 Introduction to Philosophy (3)
PHI 2630 Ethical Issues and Life Choices (3)
PHI 3670 Ethical Theory (3)
PHI 3700 Philosophy of Religion (3)
PHI 3800 Philosophy of the Arts (3)
PHI 3882 Philosophy in Literature (3)
PHM 2300 Introduction to Political Philosophy (3)
PHM 3331r Modern Political Thought (3)
PHM 3351 Philosophy of Human Rights (3)
PHM 3400 Philosophy of Law (3)
PHM 4340r Contemporary Political Thought (3)
PSY 2012 General Psychology (3)
PUP 3002 Introduction to Public Policy (3)
PUR 3002 Public Relations Techniques (3)
REL 1300 Introduction to World Religions (3)
REL 3142 Religion, The Self and Society (3)
REL 3170 Religious Ethics and Moral Problems (3)

SOP 3004 Social Psychology (3)
SYA 4010 Sociological Theory (3)
SYG 1000 Introductory Sociology (3)
SYG 2010 Social Problems (3)
SYO 3530 Social Classes and Inequality (3)
SYP 3000 Social Psychology of Groups (3)
SYP 3350 Collective Action and Social Movements (3)
SYP 3454 The Global Justice Movement (3)
SYP 3540 Sociology of Law (3)

Additional Asian Studies Courses (Six credit hours)

Select from any approved Asian Studies course or an approved Internship.
INR 4941 International Affairs Internship (3–6)

Definition of Prefix

ASH—Asian History
ASN—Asian Studies

Undergraduate Courses

ASN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of fifteen semester hours with departmental approval.

ASN 4930r. Special Topics in Asian Studies (1–3). May be repeated to a maximum of fifteen semester hours with departmental approval.

ASN 4970r. Honors Thesis (1–6). This course requires six hours of credit that must be taken in two successive semesters and must result in the production of a thesis. May be repeated to a maximum of nine semester hours.

Graduate Courses

Note: Descriptions of the following courses can be found in the *Graduate Bulletin* under the individual departments in which they are taught.

ASH 5409. Imperial China (3).
ASN 5910r. Supervised Research (1–5). (S/U grade only.)
ASN 5935r. Special Topics in Asian Studies (1–3).

For listings relating to graduate coursework for thesis, master's comprehensive examination, and thesis defense, consult the *Graduate Bulletin*.

ASTRONOMY: see Physics

Undergraduate Department of BIOLOGICAL SCIENCE

College of Arts and Sciences

Website: *http://www.bio.fsu.edu/*
Chair: Thomas A. Houpt; **Associate Chair (Graduate Studies):** Nora Underwood; **Associate Chair (Undergraduate Studies):** Karen M. McGinnis; **Associate Chair (Academic Programs):** Alice A. Winn; **Professors:** Bass, Chase, Erickson, D. Fadool, J. Fadool, Fajer, Fraser, Gilbert, Houle, Houpt, Hughes, Inouye, Levitan, Mast, Miller, Steppan, Tang, Taylor, Travis, Underwood, Zhu; **Associate Professors:** Chadwick, Cui, Dennis, DuVal, Jones, Lemmon, Lenhert, Lyons, McGinnis, Rokyta, Stroupe, Trombley, Winn, Wulff, Yu; **Assistant Professors:** Bangi, Burgess, Cortez, Feng, McCoy, Okamoto, Rassweiler, Storace, Vincis, Yin; **Professors Emeriti:** Abele, Anderson, Bates, Caspar, DeBusk, deKloet, Elam, Ellington, Epstein, Gaffney, Heard, Herrnkind, Homann, James, L. Keller, T. Keller, Livingston, Mariscal, Meredith, Outlaw, Quadagno, Reeves, Roberts, Roeder, Roux, Tschinkel

The Department of Biological Science offers an undergraduate major in biological science that includes programs of study in most contemporary areas of biology. Specific academic concentrations within the major include cell and molecular biology; ecology, evolution, and environmental biology; marine biology; physiology and neuroscience; invertebrate and vertebrate zoology; plant sciences; and pre-professional health sciences. The requirements for the baccalaureate degree in biological science include most prerequisite courses necessary for admission to medical, dental, optometry, veterinary, osteopathic, chiropractic, and other allied health professional schools. In addition, students interested in marine science may complete the program in marine biology and living resources ecology as part of the major in biological science.

The department offers a combined BS/MS degree pathway designed for academically gifted students who wish to pursue an accelerated program culminating in a BS degree in biological science and an MS degree in biological science. This program allows up to twelve semester hours of coursework to be dually counted toward both the BS and MS degrees.

The department also offers a major in computational biology in conjunction with the Computer Science Department. This interdisciplinary major provides a top-notch educational program for students interested in the areas of computational biology and bioinformatics. The program seeks to achieve two goals: (1) to develop an understanding of the issues associated with developing biologically meaningful computational models, and (2) to give students the broad-based education that is needed to create a set of models directed toward solving a practical biomedical problem.

The department offers a second interdisciplinary major, cell and molecular neuroscience, in conjunction with the Program in Neuroscience and the Department of Psychology. The major offers focused study of the brain, emphasizing the cellular and molecular processes that underlie the development, anatomy, physiology, and behavioral functions of the brain. The unique multidisciplinary breadth of the cell and molecular neuroscience major prepares students for a variety of STEM-related careers in scientific research and/or education, all health professions, and biomedical engineering.

Course Repeat Policy in Biological Science

According to FSU academic regulations, students will not be allowed additional credit for a course repeated in which the student originally made a "C–" or better unless the course is specifically designated as repeatable to allow additional credit. Students will not be allowed to take non-repeatable coursework in the department of biological science if they have already earned a passing grade of "C–" at FSU or as transfer credit unless they petition for permission from the department.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in biological science and in biology/FSU-Teach satisfy this requirement by earning a grade of "C–" or higher in BSC 2010L.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at ei-

ther a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Biology, General

1. BSC X010/X010L or BSC X010C or BSC X040/X040L
2. BSC X011/X011L or BSC X011C or BSC X041/X041L or ZOO X010/X010L or BOT X101/X010L or BOT X013/X013L
3. CHM X045/X045L or CHM X045C, or CHM X040 and CHM X041
4. CHM X046/X046L or CHM X046C
5. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C, or PHY X053/X053L and PHY X054/X054L, or PHY X048/X048L and PHY X049/X049L
6. MAC X311 or MAC X233 or MAC X253 or MAC X281 or MAC X241
7. MAC X312 or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321

Biology, General FSU-Teach

1. BSC X010/X010L or BSC X010C or BSC X040/X040L
2. BSC X011/X011L or BSC X011C or BSC X041/X041L
3. CHM X045/X045L or CHM X045C, or CHM X040 and CHM X041
4. CHM X046/X046L or CHM X046C
5. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C, or PHY X053/X053L and PHY X054/X054L, or PHY X048/X048L and PHY X049/X049L
6. MAC X311 or MAC X233 or MAC X253 or MAC X281 or MAC X241
7. MAC X312 or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321
8. SMT X043
9. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division.

Cell and Molecular Neuroscience

1. BSC X010/X010L or BSC X010C
2. BSC X011/X011L or BSC X011C
3. CHM X045/X045L or CHM X045C
4. CHM X046/X046L or CHM X046C
5. CHM X210/X210L and CHM X211/X211L
6. PHY X053/X053L
7. PHY X054/X054L
8. MAC X311
9. STA X0XX

Computational Biology

1. BSC X010 or BSC X040 or PCB X011
2. BSC X011 or BSC X041
3. CHM X045/X045L or CHM X045C, or CHM X040 and CHM X041
4. CHM X046/X046L or CHM X046C
5. PHY X048/X048L or PHY X053/X053L
6. PHY X049/X049L or PHY X054/X054L
7. MAC X311
8. MACX312

Requirements for Majors in the Department of Biological Science

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

1. **Prerequisites for Upper-Division Biological Science Courses:**
   Registration in all 3000- and 4000-level biological science courses is allowed only after meeting the following criteria:
   a. Satisfactory completion ("C–" or better) of BSC 2010/L (Biological Science I with lab) and BSC 2011/L (Biological Science II with lab)
   b. Satisfactory completion ("C–" or better) of CHM 1045/L and CHM 1046/L or CHM 1050/L and CHM 1051/L (General Chemistry I and II with labs)
   c. A minimum combined 2.0 GPA in all biology, chemistry, mathematics, physics, programming, and statistics courses, and their prerequisites, that are applicable to the major, from any institution attended.
2. **Formal Admission:**
   a. All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).
   b. Registration in all 3000- and 4000-level biological science courses is allowed only after meeting the following criteria:
      i. Satisfactory completion ("C–" or better) of BSC 2010/L (Biological Science I with Lab) and BSC 2011/L (Biological Science II with Lab), and
      ii. Satisfactory completion ("C–" or better) of CHM 1045/L and CHM 1046/L or CHM 1050/L and CHM 1051/L (General Chemistry I and II with Labs)
3. **Academic Performance Required for Retention and Graduation:**
   a. All courses applicable to the major, including biological science, chemistry, mathematics, physics, programming, and statistics must be completed with a grade of "C–" or better.
   b. Designation, continuation, and graduation with a major from the department of Biological Science requires a minimum combined 2.0 GPA in all courses, excluding the Term 1–4 State Common Program Prerequisites milestone courses, including biology, chemistry, mathematics, physics, programming, and statistics.
   c. A student who has received more than one unsatisfactory grade (U, F, D–, D, or D+) in courses required for the major, excluding the Term 1–4 State Common Program Prerequisites milestone courses, taken after enrolling at FSU, will be required to change to a major outside of the department of Biological Science.
   d. A student with a major in the department of Biological Science who applies for readmission to the college must meet the biological science degree requirements of the catalog in force on the date of their original admission.
4. **Co-op and Transient Study:**
   Florida State University biological science majors who intend to take courses for the major (biological science, chemistry, mathematics, physics, programming, statistics) at other institutions must receive approval from the Department of Biological Science Academic Advising Office prior to enrollment. This policy applies to courses taken as part of the FAMU–FSU and TCC–FSU co-op programs, as well as courses taken elsewhere.

Requirements for a Major in Biological Science

1. **Required Courses in Biological Science:**
   Thirty-eight semester hours of biological science coursework are required for the degree. At least twenty of the required semester hours must be taken in residence at Florida State University. The following shall be included in the thirty-eight semester hours:
   a. Eight semester hours (prerequisite to all major coursework in biology): BSC 2010/2010L, BSC 2011/2011L
   b. PCB 3063 General Genetics (3)
   c. PCB 3134 Cell Structure and Function and/or BSC 3016 Eukaryotic Diversity (3)
   d. BSC 3402L Experimental Biology Laboratory (3)
   e. PCB 4674 Evolution (3)
   f. At least one course from two of the three areas:

Area I: Cell and Molecular Biology

MCB 4403 Prokaryotic Biology (3)

PCB 3134 Cell Structure and Function (3)
PCB 4024 Molecular Biology (3)
PCB 4253 Animal Development (3)

Area II: Physiology

PCB 4701 Human Physiology (3)
PCB 4843 Fundamentals of Neuroscience (3)
BOT 4503 Plant Physiology (3)

Area III: Ecology and Environmental Science

BSC 3052 Conservation Biology (3)
PCB 3043 General Ecology (3)
ZOO 4513 Animal Behavior (4)

g. Additional courses for major credit at the 3000 or 4000 level to complete the thirty-eight semester hour requirement. No more than six semester hours of honors work in biological science (BSC 4970r), six semester hours of directed individual study (BSC 4900r), four semester hours of internship (BSC 4941r), one semester hour of undergraduate supervised teaching (BSC 4945), and two semester hours of senior tutorial (BSC 4931r) can be used to meet the thirty-eight hour requirement

h. Completion of at least five biology laboratory/field courses (the letter "C" listed after the course number indicates that the course is a lecture and a lab/field combined, and the letter "L" indicates the course is a laboratory or field course).

2. **Required Courses in Collateral Areas:**

a. **General Chemistry:** Two semesters of general chemistry with laboratory equivalent to CHM 1045/L plus CHM 1046/L or CHM 1050/L plus CHM 1051/L.

b. **Organic Chemistry and Physics:** Students are required to take either two semesters of organic chemistry (equivalent to CHM 2210 and 2211 or CHM 3217 and CHM 3218) and one semester of physics or two semester of physics and one semester of organic chemistry (CHM 2210 or CHM 3217). The acceptable physics courses are general physics with laboratories equivalent to PHY 2048C and 2049C (prerequisite of MAC 2311) or PHY 2053C and 2045C (prerequisite are MAC 1114 and MAC 1140). Many health professions programs require two semesters of both organic chemistry and physics and also require CHM 2211L (Organic Chemistry II Laboratory), BCH 4053 (General Biochemistry I), and BCH 4054 (General Biochemistry II), which do not apply to the major.

c. **Mathematics/Statistics:** Either two semesters of calculus with analytical geometry equivalent to MAC 2311 and MAC 2312, or MAC 2311 and STA 2171, or MAC 2311 and COP 3014.

3. **Exit Survey:**
All seniors must complete the online exit survey in the semester in which they plan to graduate. For details, contact an advisor in the Biological Science Academic Advising Office.

4. **Minor:**
The required collateral courses in chemistry constitute a chemistry minor and fulfill the College of Arts and Sciences requirement for a minor if two semesters of organic chemistry are taken; students who elect to take two semesters of physics and one of organic will fulfill an interdisciplinary science minor. Students may select other minors in consultation with an advisor.

Honors in the Major in Marine Biology Program

Biological Science majors who are interested in the Honors in the Major in Marine Biology Program may apply if they have completed at least sixty credit hours with at least a 3.2 cumulative GPA on all coursework and at least a 3.2 GPA in the required introductory biology courses, BSC 2010 and BSC 2011, and their labs. Students typically apply at the end of their sophomore year, choose a research topic by the end of their junior year, and complete an honors thesis by the end of their senior year. Those interested in the program should visit an academic advisor for more information or contact Dr. Janie Wulff, the program director.

Honors in the Major

The Department of Biological Science offers a program in honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

FSU-Teach Program in Science Teaching

For those interested in teaching Biological Science, FSU-Teach is an innovative approach to teacher education that involves a collaboration between scientists, mathematicians, and education faculty at Florida State University. In this program, students develop deep science or mathematics knowledge and the skill and experience needed to be an effective science or math teacher. FSU-Teach pays for tuition for the first two courses (Step 1 and Step 2). Work study positions with scientists, mathematicians and local schools are available.

Prerequisites for admission to the Biological Science/FSU-Teach major are the same as the prerequisites for the Biological Science major. The program is a double-major only curriculum requiring students to complete a primary major in Biological Science in addition to a second major in Secondary Science and Mathematics Teaching (SSMT). The discipline area has a special track for FSU-Teach majors enabling students to complete the double major in four years (120 hours), or they may complete the normal discipline area track and the SSMT major with the understanding that they may exceed the excess credit-hour threshold and be subject to the excess credit surcharge (*https://registrar.fsu.edu/records/excess_hours/*). Students may begin taking courses in the program as soon as they matriculate at FSU.

The program culminates with conferral of the baccalaureate degree with two majors and all coursework and state testing requirements for initial Florida teacher certification. Note that students seeking certification must be formally admitted to the School of Teacher Education and meet all of the requirements for pursuing a state-approved program. For information regarding the requirements for the second major in Science and Mathematics Teaching, please see the FSU-Teach chapter in this *General Bulletin* for School of Teacher Education. For additional information, see our Web site: *http://FSU-Teach.fsu.edu*.

Program in Computational Biology

Computational biology is a new and promising field of study. The purpose of the interdisciplinary major is to provide a top-notch educational program for students interested in the areas of computational biology and bioinformatics. The program seeks to achieve two goals: 1) to develop an understanding of the issues associated with developing biological meaningful computational models, and 2) to give students the broad-based education that is needed to create a set of models directed towards solving a practical biomedical problem. This major is offered through both the Biological Science and Computer Science departments. Students in the program should be sure to consult with the advisors in their home department to make sure they are taking the correct courses in the correct sequence and that they are in compliance with the academic requirements of that department. For computational biology (biology) majors, this will include the prerequisites for upper division courses, the academic performance standards, the D/F policy, and the transient and co-op study policies listed for biological science majors.

Requirements for a Major in Computational Biology

1. **Required Biological Science Courses (seventeen hours)**

BSC 2010/L Biological Sciences I (3) and Lab (1)
BSC 2011/L Biological Sciences II (3) and Lab (1)
PCB 3063 Genetics (3)
PCB 4674 Evolution (3)

Three additional hours of biological science courses selected from: MCB 4403/L, PCB 3134, PCB 3743, PCB 4024, PCB 4233, PCB 4253, or PCB 4843.

2. **Required Scientific Computing Courses (twenty-two hours)**

ISC 3222 Symbolic and Numerical Computations (3)
ISC 3313 Introduction to Scientific Computing (3)
ISC 4220C Algorithms for Scientific Applications I (4)
ISC 4221C Algorithms for Scientific Applications II (4)
ISC 4304C Programming for Scientific Applications (4)
ISC 4420 Introduction for Bioinformatics (4)

3. **Required Research Experience:** ISC 4943r or BSC 4900 (two hours each in two semesters)

4. **Additional Elective Courses (five hours)**

Five additional hours chosen from Biology, Chemistry, Computer Science, Mathematics, or Statistics.

Physics and Scientific Computing selected from: CDA 3101, COP 4531, COP 4710, COT 4420, and CIS 4900, MAC 2313, MAP 4881, STA 4103, STA 4202, STA 4203, STA 4442, STA 4502, and STA 47012, CHM 1045L, CHM 1046L, PHY 2054C, PHY 2049C, ISC 4223, ISC 4232.

5. **Collateral Courses (twenty-four hours)**

All collateral courses must be completed with a grade of C– or better.

Mathematics/Statistics (fourteen hours):

MAC 2311 Calculus with Analytic Geometry I (4)
MAC 2312 Calculus with Analytic Geometry II (4)
MAD 2104 Discrete Mathematics I (3)
STA 2171 Statistics for Biology (4)

Chemistry (six hours):

CHM 1045 General Chemistry I (3)
CHM 1046 General Chemistry II (3)

Physics (four hours):

PHY 2053C College Physics A (4) or
PHY 2048C General Physics A (5)

Computer Skills Competency (zero hours beyond major):

ISC 3313 Introduction to Scientific Computing (3)

Program in Neuroscience

Website: *http://neuro.fsu.edu/*

Neuroscience is the study of brain and nervous system function. The cell and molecular neuroscience major offers students the opportunity to build knowledge across the natural and social sciences – exploring the elaborate chains of causality that lead from molecules to behavior, as well as the dramatic impact exerted by social, personal, and environmental influences on the dynamic patterns of neural activity that drive cognition, emotion, and behavior. Students experience a synthesis of coursework offered by the Departments of Biological Science, Psychology, Chemistry, Physics, Mathematics, and Statistics. The unique multidisciplinary breadth of the cell and molecular neuroscience major prepares students for a variety of STEM-related careers as technicians, researchers, educators, or health professionals. While understanding human brain function (in health and disease) has long been of central importance to physicians, psychologists, researchers, and educators, the knowledge accruing from this effort is beginning to impact bioethics, computer science, and biomedical engineering.

Requirements for a Major in Neuroscience

1. **Minimum Program Requirements - Summary**

a. Total hours required: 120
b. General education: 36 (encouraged to take PSY 2012 to fulfill social science requirement)*
c. Collateral coursework: 37
d. Major coursework: 36
e. Minor coursework: 0 (none beyond collateral science coursework, which constitutes a minor)
f. Foreign language: 0-12 (depending on placement)
g. Computer skills: 0 (none beyond major requirement PSY 3213C, BSC 2011L)
h. Oral competency: 0-3
i. Electives to bring total hours to 120

Note: Some coursework required for the major may also be applied towards general education and/or minor requirements.

2. **Admission Requirements to the Upper-Division Major**

Due to the limitations in the number of faculty and physical resources, admission to the undergraduate program will be based on the following admission requirements:

a. A minimum GPA of 2.80 in all college-level courses attempted
b. Completion of the following courses with a grade of "C-" or higher:
   i. BSC X010, X010L (3, 1) Biological Science I and Lab
   ii. BSC X011, X011L (3, 1) Biological Science II and Lab
   iii. CHM X045, X045L (3, 1) General Chemistry I and Lab
   iv. CHM X046, X046L (3, 1) General Chemistry II and Lab
   v. MAC X311 (4) Calculus I
   vi. STA X0XX (3) Statistics: STA 2122 (3) preferred
c. Completion of at least 52 academic credits or an A.A. degree
d. A preliminary meeting with the Neuroscience academic advisor (*nlilly@neuro.fsu.edu*) to discuss program requirements and career goals is required

Certification and admission to upper-division status can occur during any semester (Fall, Spring, Summer). However, prospective transfer students should contact Ms. Shellie Camp (*as-admissions@fsu.edu*) with specific questions about admission and mapping requirements.

3. **Major Program of Studies at FSU**

36 hours of degree core and elective coursework. Grades below "C–" will not be accepted for major credit.

A student who has received more than four unsatisfactory grades (U, F, D–, D, or D+) in courses required for the major, excluding Term 1–4 State Common Program Prerequisites milestone courses, taken after enrolling at FSU, will not be permitted to graduate with a degree in this major.

4. **Students must complete the following requirements:**

Degree Core Coursework (19 hours):

PSY 2012 General Psychology (3)
PCB 3134 Cell Structure and Function (3)
PSY 3213C Research Methods (4)
PCB 4843 Fundamentals of Neuroscience (3)
PSB 3004C Physiological Psychology with Brain Anatomy Lab (4)
PSB 4057 Molecules to Behavior (2)

Degree Elective Coursework (17 hours). Take any combination of Biological Science electives up to 11 hours:

PCB 3063 General Genetics (3)
PCB 4024 Molecular Biology (3)
PCB 4024L Molecular Biology Lab (1)
PCB 4233 Immunology (3)
PCB 4233L Immunology Lab (1)
PCB 4244 Biology of Aging (3)
PCB 4253 Animal Development (3)
PCB 4701 Human Physiology (3)
BSC 4731L Experimental Physiology Lab (2)
BSC 4900 Directed Individual Study (1-6)
ZOO 3713C Comparative Vertebrate Anatomy (4)
ZOO 4343C Biology of Lower Vertebrates (4)
ZOO 4353C Biology of Higher Vertebrates (4)
ZOO 4513 Animal Behavior (4)
ZOO 4753C Histology (4)

Take any combination of Psychology electives up to 6 hours:

EXP 3202C Sensation and Perception with Lab (4)
EXP 3422C Conditioning and Learning with Lab (4)
EXP 3604C Cognitive Psychology with Lab (4)
EXP 4640 Psychology of Language (3)
PSB 4006 Social Neuroscience (3)
PSB 4040 Affective Neuroscience (3)
PSB 4240 Neurobiology of Brain Dysfunction (3)
PSB 4447 Psychopharmacology (3)
PSB 4461 Hormones and Behavior (3)
PSB 4710 Biology of Eating Disorders and Obesity (3)
PSB 4731 Biopsychology of Sexual Behavior (3)
PSY 4910 Augmented Research Topics (1-3)
CLP 4143 Abnormal Psychology (3)
CBH 4304 Behavioral Genetics (3)
SOP 3004 Social Psychology (3)

5. **Minor Coursework**

None beyond the prerequisite science coursework, which constitutes a minor.

6. **Computer Skills Competency (0 beyond major requirements)**

PSY 3213C Research Methods in Psychology and BSC 2011L Biological Science II Laboratory meet this requirement.

7. **Oral Communication Competency (0-3 hours)**

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met with an approved college-level course such as SPC 2017 or SPC 2608.

Graduate Study

The Department of Biological Science offers work leading to the Master of Science (MS) and Doctor of Philosophy (PhD) degrees; consult the *Graduate Bulletin* for details.

Requirements for a Minor in Biological Science

A minimum of twelve semester hours of biological science courses approved for major credit, including BSC 2010/L and BSC 2011/L plus at least four credit hours of additional upper division biological science course work. No more than one credit hours of S/U graded course work can be counted toward the minor. A minimum of four semester hours of the twelve semester hours must be taken at Florida State University. Grades below "C–" will not be accepted for minor credit.

Definition of Prefixes

BCH—Biochemistry (Biophysics)
BOT—Botany
BSC—Biological Sciences
IDS—Interdisciplinary Studies
ISC—Interdisciplinary Sciences
MCB—Microbiology
PCB—Process Biology (Cell/Molecular/Ecology/Genetics/Physiology)
PSB—Psychobiology
ZOO—Zoology

Undergraduate Courses

Courses Not for Major or Minor Credit

BSC 1005. General Biology for Nonmajors (3). This course consists of four units of contemporary biology topics, taught by biology professors/researchers who specialize in the subject matter. Topics vary each semester. The course emphasizes the development of science proficiency by teaching students to understand, use, and interpret scientific explanations of the natural world and apply this knowledge to social, environmental, political or wellness issues.

BSC 1005L. General Biology Laboratory for Nonmajors (1). This course emphasizes the development of multiple aspects of science proficiency for all students: knowing, using, and interpreting scientific explanations of the natural world; generating and evaluating scientific evidence and explanations; understanding the nature and development of scientific knowledge; and participating productively in the practices and discourses of science. Specifically, this course includes multiple investigations of the core concepts in biology that engage students in the practices of scientific inquiry. Biological systems are analyzed through experimentation, dissection, observation, and modeling.

BSC 2085. Anatomy and Physiology I (3). This course is the first of a two-semester human anatomy/physiology sequence emphasizing the cell, stimulus-response concept, and the skeletal-muscular and first half of the nervous systems.

BSC 2085L. Anatomy and Physiology I Laboratory (1). Corequisite: BSC 2085. This course is the first of two-semester human anatomy/physiology sequence emphasizing the cell, stimulus-response concept, and the skeletal-muscular and first half of the nervous systems.

BSC 2086. Anatomy and Physiology II (3). Prerequisite: BSC 2085 or instructor permission. This course is a continuation of a two-semester human anatomy/physiology sequence beginning with the second half of the nervous system, then continuing with endocrine, cardiovascular, respiratory, digestive, excretory, and reproductive systems. Also included are fluid-electrolyte balance and immunity.

BSC 2086L. Anatomy and Physiology II Laboratory (1). Prerequisites: BSC 2085 and BSC 2086L. Corequisite: BSC 2086. This course is a continuation of a two-semester human anatomy/physiology sequence beginning with the second half of the nervous system, then continuing with endocrine, cardiovascular, respiratory, digestive, excretory, and reproductive systems. This course also covers fluid-electrolyte balance and immunity.

IDS 2132. Busting Common Biology Myths (3). This course explores areas of biology popularized in the media, politics and global health policies. Students determine strengths and weaknesses of opposing arguments of controversial current biological issues using information found in the scientific literature to support or critique positions. Popular biological issues such as pros and cons of vaccination, the use of stem cells, or the dangers of genetically modified organisms are studied.

IDS 2134. Evolution, Medicine, Evidence (3). This course introduces the study of evolution as it applies to the practice of medicine. Students investigate what constitutes scientific evidence, how to use evidence, the evidence concerning biological evolution, and the implications of evolution for the practice of medicine.

IDS 2135. Genetics in Society (3). This course is intended to help students understand the science behind major issues that are likely to evolve into increasingly important moral, political, and public policy decisions in their lifetime. Topics are discussed such as: choosing the sex or genetic composition of children, human cloning, rebuilding defective organs and tissues from stem cells, and altering genetic constitution.

IDS 2136. Biotechnology: Impact of Life Sciences on Society (3). This course addresses the important impacts that new biotechnological innovations have on society. Using examples from genetically modified crops to advances in personalized medicine, students explore the scientific bases of emerging biotechnologies and compare the scientific data with societal perception and acceptance.

IDS 2470. The Ecology of Food (3). This course explores the basic ecology of agriculture and fisheries and considers how conventional and alternative food-production practices generate and solve ecological problems. The course focuses on several major current issues (e.g. genetically modified organisms, pollinator declines, organic agriculture, and fisheries), and for each students learn the science behind the issue and the social forces shaping the problem. Students also learn through discussions of scientific and popular writings, lectures, hands-on and written projects, oral presentations, local speakers and field trips.

IDS 3232. Living Green, Theory to Action (3). This course examines environmental issues, the three "E"s of sustainability (ecology, equity, and equality), ways to integrate sustainability into infrastructures and social structures, and practical solutions and skills for making personal and professional decisions that support living a sustainable life.

IDS 3700. Broken Clocks and Disrupted Sleep: Impacts of Technology (3). This course explores the impact of changing technology on circadian rhythms and sleep patterns and the consequences to human health. The course is suitable for all majors.

ISC 2937r. Natural Science Honors Seminar (3). May be repeated to a maximum of nine semester hours.

ISC 3076. Science, Technology, and Society (3). Prerequisite: Junior standing or instructor permission. This course examines interrelations among science, technology, and society. Science is considered as an enterprise in modern society that produces technological advances and new perspectives on reality. This course cannot be used as credit toward a major or a minor in a science department.

ISC 4420. Introduction to Bioinformatics (4). This course provides a quantitative framework for understanding how the genomic sequence and its variations affect the phenotype. The course is designed for biologists and biochemists seeking to improve quantitative data interpretation skills, and for mathematicians, computer scientists and other quantitative scientists seeking to learn more about computational biology. Lab exercises are designed to reinforce the classroom learning.

MCB 2004. Microbiology for Health Services (3). Corequisite: MCB 2004L. This course covers microbiology for students planning careers in the health services, with emphasis on infectious disease, food microbiology, and public health.

MCB 2004L. Microbiology for the Health Services Laboratory (1). Corequisite: MCB 2004. This course covers microbiological techniques including the isolation, typing, and identification of bacteria, properties of pathogenic bacteria, and food microbiology.

Courses for Major Credit

Note: All 3000- and 4000-level biological science courses, except BSC 3938 and BSC 3930, have the following minimum prerequisites: BSC 2010/L, 2011/L; CHM 1045/L and 1046/L. Additional prerequisites, if any, are included in the course listing.

Botany

BOT 3015. Plant Biology (2). This course is an introduction to evolutionary relationships, natural history, ecological adaptations, and physiology of plants, fungi, autotrophic protista, and prokaryotes.

BOT 3015L. Plant Biology Laboratory (1). Pre- or corequisite: BOT 3016. This lab explores anatomy, development, and morphology and life cycles of autotrophs and fungi and other osmotrophs.

BOT 3143C. Field Botany (4). This course is an introduction to plant taxonomy with emphasis on laboratory and field study. Orientation to principles of identification, classification, and rules of botanical nomenclature.

BOT 4394. Plant Molecular Biology (3). Prerequisite: BOT 3015. Pre- or corequisite: PCB 3063. This course explores molecular biology and biotechnology of plant growth and development.

BOT 4503. Plant Physiology (3). Prerequisites: BSC 2010, BSC 2010L, BSC 2011, BSC 2011L, CHM 1045, and CHM 1045L. This course provides students with a comprehensive overview of plant physiology. Plant physiology is the study of plant processes, structure and function. Physiology describes the mechanisms used by living organisms to solve problems they encounter as they grow and develop. Plants are unique, as sessile, photoautotrophic organisms, and diverse. As such, plants provide the opportunity to study many interesting physiological topics and mechanisms.

BOT 4503L. Plant Physiology Laboratory (1). Prerequisite or Corequisite: BOT 4503. This laboratory course uses a research approach to introduce students to basic physiological principles in plants. Student also participate in discovery based experiments with plants.

Biological Science

BSC 1100. Natural History, Biodiversity, and the Growth of Evolutionary Thought (3). This course explores Darwin's world and demonstrates why this statement is even more apt today: The foundation for all of modern biology is evolution, and evolutionary thought stands out from other important scientific principles by the way in which it transformed how science and the society in general view the natural world. This course traces the origins of biological thought from the explosion of discoveries about biological diversity arising from the Age of Exploration by northern European countries, especially the UK, the early development of natural history as a field and specifically of natural history museums as a repository of those discoveries, and how these museums and global exploration set the stage for the intellectual transformation that followed.

BSC 2010. Biological Science I (3). This is the first part of a two-semester introductory biology course designed for those interested in pursuing a career in life sciences. The course provides the building blocks necessary for a student to gain a strong foundation in general biology. Topics covered provide an overview of biological processes and function at the molecular, cellular and organismal level.

BSC 2010L. Biological Science I Laboratory (1). This course introduces basic chemistry, energetics, metabolism, and cellular organization; molecular genetics and information flow; animal and plant function.

BSC 2011. Biological Science II (3). Prerequisite: BSC 2010. This is the second of a two-semester introductory biology course designed for those interested in pursuing a career in life sciences. The course provides an overview of the processes underlying the animal embryonic development, inheritance genetics, evolution and ecology.

BSC 2011L. Biological Science II Lab (1). Prerequisites: BSC 2010 and BSC 2010L. Corequisite: BSC 2011. This course focuses on reproduction and development, transmission (Mendelian) genetics, population biology, ecology, and evolution.

BSC 3016. Eukaryotic Diversity (3). This course provides an overview of the diversity of eukaryotic organisms (protists, plants, fungi and animals), the evolutionary origin of this diversity, and its societal relevance. Comparisons of exemplar organisms are used to illustrate broad themes in the anatomy, physiology, behavior, life cycles, and ecologies of all eukaryotes.

BSC 3052. Conservation Biology (3). This course focuses on the history of the conservation movement, the research on populations of animals and plants that is relevant to man's impact upon the environment, pollution in terrestrial and aquatic ecosystems, endangered species, government regulation, and sustainable development.

BSC 3312. Marine Biology (3). This course explores marine geology, chemistry of the oceans, oceanic circulation, oceanographic techniques, the marine environment and marine life.

BSC 3402L. Experimental Biology Laboratory (3). This course if limited to Biological Science majors. This course is designed to teach students about the process of biological research. Each section of the course is organized around a particular biological concept. The focus in this course is two-fold. First, students are provided with basic background in the field of study. This is done through lab work and lecture. Students are provided with documents to help them with their work. Second, and more important, is the development of skills in biological research. The skills are developed in laboratory and lecture exercises as well as outside of class assignments, culminating in an independent research project, which they present both orally and in writing. This course meets the University's Oral Communication Competency Requirement, and the Upper Division Writing Requirement. Developing oral and written communication skills are major components of this course.

BSC 3930. Seminar in Biological Frontiers (1). (S/U grade only.) Prerequisites: BSC 2010, BSC 2010L, BSC 2011, and BSC 2011L. This course is a weekly seminar covering topics in biological research. Not repeatable for credit toward major requirements.

BSC 3938. Careers in the Biological Sciences (1). (S/U grade only.) This course is intended for biology sciences majors at any point in their undergraduate career, but is most beneficial to those in their first three years. Career options in biology-related fields (including health professions) and the preparation they require are presented for students planning to immediately enter the job market or to continue their academic careers upon graduation. Not repeatable for credit toward major requirements.

BSC 3949r. Experiential Learning (0). (S/U grade only.) This non-credit, experiential learning course offers students an opportunity to gain "real world" on-the-job work experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

BSC 4424. Nanotechnology (3). Students are provided with the basic understanding of the relevant aspects of biology, chemistry, physics, engineering, and business to follow a typical lecture at an interdisciplinary nanotechnology conference and/or work in a small nanotechnology start-up company. Specific nanotechnologies, both real and imagined, are discussed in the context of scientific papers, patent literature, and popular media. Examples of topics include lithography, synthetic nanomaterial, and bionanotechnology. Emphasis is placed on industrial implications in computing and communications, medicine, materials, and other topics of interest to the interdisciplinary students.

BSC 4473C. Introduction to Scientific Diving (3). Prerequisites: Open water diver certified by national organization, clear diving medical exam, ability to pass swimming evaluation. This course is designed for the scientist or scientist in training who plans to use SCUBA diving as a tool for underwater research. Skills covered include dive planning, emergency management, underwater navigation, survey techniques, and instrument deployment and recovery.

BSC 4821C. Biogeography (4). This course emphasizes ecological and evolutionary biogeography, the physical processes and organismal characteristics that determine distributions, and the analytical methods used to describe distributions and test processes. Geographic data sets are analyzed in lab sessions to search for patterns and test hypotheses with the scientific method.

BSC 4881. Mathematics in Biology (4). Pre- or corequisite: BSC 2010, BSC 2011, AND MAC 2311. In this course, the student will learn how to formulate biological questions as mathematical models and then to develop and analyze these mathematical models. The focus will be on ecological, evolutionary, and epidemiological models. However, other topics will be covered (e.g., demography) and the skills learned are transferable to a much wider array of topics. By the end of the course, the student will be familiar and comfortable with types of models that they will encounter in the primary literature.

BSC 4900r. Directed Individual Study (1–4). Prerequisites: A combined 3.0 GPA in biology, chemistry, physics, math, and statistics courses applied to the major; permission from a biological science instructor; and Department of Biological Science Advising Office permission. This course is a supervised study of a special topic or research participation in the area of the faculty member's research. Graduate students may not register for this course. A maximum of six semester hours may be applied to biological science major credit. May be repeated to a maximum of twelve semester hours.

BSC 4901. Directed Individual Study II (0–4). Pre- or corequisite: BSC 4900. In this course, students communicate the results of their research in writing or through an oral presentation.

BSC 4910. Directed Independent Study (0). (S/U grade only.) Pre- or corequisite: BSC 4900. In this course, students communicate the results of their research in writing or through an oral presentation.

BSC 4931r. Senior Tutorial in Biological Science (1). (S/U grade only.) Prerequisite: Senior standing. This course focuses on selected topics in contemporary biological science; maximum enrollment of five students in each tutorial. May be repeated to a maximum of two hours

BSC 4933r. Selected Topics in Biological Science (1–4). Prerequisites: Courses as specified and junior or senior standing. May be repeated to a maximum of eight semester hours.

BSC 4933Lr. Selected Topics in Biological Science Lab (1–4). Prerequisites: Courses as specified and junior or senior standing. May be repeated to a maximum of eight semester hours.

BSC 4940. Research Internship in Marine Biology (3–9). Prerequisites: PCB 3043, junior or senior standing, 3.0 GPA in biology, a course in the area of research, and associate chair written permission. This course is a special supervised study in marine biology at the National Marine Fisheries Services Laboratory in Panama City, the Mote Marine Laboratory, or other approved location. Students may receive up to nine semester hours of credit, of which four semester hours would apply to the biological science major. Offered during the Summer only.

BSC 4941r. Internship in Biological Science I (1–4). (S/U grade only.) Prerequisites: In addition to the required introductory courses in biology and chemistry, junior or senior standing, a 3.0 or greater GPA in biology, and permission of the Associate Chair of Undergraduate Studies. This internship course is designed for majors in the department of Biological Science who wish to gain real world experience in their field of interest through on-the-job practice and have this experience reflected on their transcript. Students work under the supervision of an approved professional in the field of biological science with oversight by the Associate Chair of Undergraduate Studies. May be repeated to a maximum of six semester hours, but only four hours may count towards the major.

BSC 4942. Internship in Biological Science (0-4). (S/U grade only.) Prerequisite: BSC 4941. This internship course is designed for majors in the department of Biological Science who wish to gain real world experience in their field of interest through on-the-job practice and have this experience reflected on their transcript. Students work under the supervision of an approved professional in the field of biological science with oversight by the Associate Chair of Undergraduate Studies.

BSC 4943r. Computational Biology Practicum (2). Prerequisites: Computational Biology major and instructor permission. This course entails a research thesis project to be completed under the guidance of a faculty committee comprising a research advisor and two other professors. Upon completion of the research thesis project, students seek final approval from their committee through a written and oral defense.

BSC 4945. Undergraduate Supervised Teaching (1). Prerequisites: Senior standing and instructor permission. In this course, students serve as Laboratory Assistants in BSC 1005L or as Tutors in BSC 2010 or BSC 2011, or BSC 1005. Students also receive training in interactive techniques and use this training to lead classroom discussions and interactive exam review sessions.

BSC 4970r. Honors Work in Biological Science (1–6). Prerequisite: Admission to the department's honors-in-the-major program. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours, of which six semester hours may be applied to biological science major credit.

Microbiology

MCB 4403. Prokaryotic Biology (3). Prerequisites: CHM 2210 and PCB 3063. Corequisite: MCB 4403L. This course covers structural and functional characteristics of microorganisms, with emphasis on prokaryotes (bacteria and archaea) and viruses. Topics include: prokaryotic cell structure and function, physiology and genetics of prokaryotes and viruses, physiological and molecular aspects of microorganisms and human disease, and biotechnological applications of microbial physiology (environmental, food, and industrial microbiology).

MCB 4403L. Prokaryotic Biology Laboratory (2). This course covers laboratory methods for growth, handling, and study of prokaryotes and other types of microorganisms. Topics include: aseptic technique and isolation of pure cultures; microscopic methods; effects of environment on growth; viruses; physiological characterization methods; and methods related to medical, environmental, and food microbiology.

MCB 4502. Virology (3). Prerequisites: BSC 2011, BSC 2011L, CHM 1046, CHM 1046L. This course covers general virology including virus structure and replication cycles. Students review major families of the bacterial (bacteriophage) plant and animal viruses, with emphasis placed on human viruses and infectious diseases. Students also discuss subviral particles, prions and viroids.

Process Biology

PCB 3043. General Ecology (3). This course focuses on topics such as: population biology; population growth; community processes, succession, nutrient cycling, and energy flow; species interactions; ecological efficiency; and biogeographical ecology.

PCB 3043L. Lab for Ecology (2). Pre- or corequisite: PCB 3043. In this course, topics covered include quantifying populations and population growth; species interactions such as competition, predation, and mutualisms; documenting community patterns against gradients; adaptation and traits of species; habitat use, movement and species ranges; natural history of local habitats.

PCB 3063. General Genetics (3). This course is an introduction to the principles of transmission and molecular genetics of prokaryotes and eukaryotes and significance of these principles to other aspects of biological science.

PCB 3134. Cell Structure and Function (3). This course focuses on topics such as: cellular chemistry and physiology, morphology, and function of cellular organelles; and cellular motility, growth, division, communication, and regulation.

PCB 3743. Vertebrate Physiology (3). This course studies physiological systems of vertebrates with emphasis on mammals. Mechanisms underlying physiological processes and the physico-chemical principles upon which they depend are also studied.

PCB 4022C. Intensive Modern Molecular Biology (4). Prerequisites: PCB 3063 and PCB 4024. This course teaches modern molecular biology methods in a cohesive single project. Working with a single gene, students design overexpressing clones to be transfected into human cells. Additionally, using CRISPR gene editing, students knock that gene out of cells. RNA is isolated from each experiment and full transcriptomes are sequenced and analyzed.

PCB 4024. Molecular Biology (3). Prerequisite: PCB 3063 and PCB 3134 is recommended, but not required. This course studies the molecular basis of cellular function with emphasis on the activities of DNA, RNA, and the regulation of gene expression.

PCB 4024L. Molecular Biology Laboratory (1). Corequisite: PCB 4024.

PCB 4109. The Genetic Basis of Cancer (3). Prerequisite: PCB 3063. This course introduces students to a range of cancer related topics from the cancer related mutations and signaling pathways to the cutting-edge research that offers attractive development for new anti-cancer drugs and therapeutic strategies. From tumor inducing viruses to multi-steps of tumorigensis, students learn the history of cancer and how it has shaped contemporary research.

PCB 4233. Immunology (3). Prerequisites: CHM 2210, PCB 3063, PCB 3134, or instructor permission. This course analyzes the tissues, cells, and molecules of the immune system and their relationships to disease and transplantation.

PCB 4233L. Laboratory in Immunology (1). Prerequisites: PCB 3063, PCB 3134, and CHM 2210. Corequisite: PCB 4233. This course analyzes the tissues, cells, and molecules of the immune system and their relationships to disease and transplantation.

PCB 4244. Biology of Aging (3). Prerequisite: PCB 3063. This course provides an introduction to multi-disciplinary questions and approaches in the biology of aging. Both ultimate (evolutionary) and proximate (molecular, physiological) mechanisms are discussed, and the interrelationship between these kinds of explanations are explored. The course emphasizes learning to read and evaluate the primary research literature focused on biological studies of age.

PCB 4253. Developmental Biology (3). Prerequisite: PCB 3063. This course discusses a number of topics, including fertilization, early embryonic events, organogenesis, differentiation, morphogenesis, cytoplasmic localization, determination, and differential gene expression.

PCB 4253L. Developmental Biology Laboratory (3). Prerequisite: PCB 3063. Corequisite: PCB 4253. This lab combines lecture and laboratory experiments regarding sea urchin fertilization, frog and chick early development, gene expression, cell-cell interactions, and metamorphosis.

PCB 4402. Ecology of Infectious Disease (1). Prerequisites: BSC 2010, BSC 2011, and MAC 2311. This course explores how concepts and tools of basic ecology can and have been used to understand the dynamics of infectious disease, and contribute to our ability to predict, prevent, and control disease outbreaks. Students consider diseases of humans and their domesticated plants and animals, as well as the role of disease in natural systems. Students are also expected to read extensively in the primary literature, and to contribute to regular class activities and discussions as well as research and present information on specialized topics such as the role of conservation corridors in the spread of disease, possible responses to pandemics and bioterrorism, and identification of sources of emerging diseases.

PCB 4674. Evolution (3). Prerequisites: PCB 3063 and senior standing. This course places emphasis on the processes of evolution: origin of life, theories of evolution, sources of variation, natural selection, population systems, isolating mechanisms, evolution above the species level.

PCB 4701. Human Physiology (3). Pre- or corequisites: PCB 3063 or PCB 3134. This course covers the human nervous system, special sensory organ systems, the central nervous system, the muscle and skeletal systems, the heart and circulatory system, the respiratory system, the urinary and digestive systems, the endocrine system, and reproduction. Cellular mechanisms underlying the homeostatic regulation of each organ system are studied in the context of clinical impacts based upon diseases. For example, Muscular Dystrophy, diabetes mellitus, cardiac arrhythmias, cardiovascular disease, renal failure, pulmonary disease, Alzheimer's, Parkinson's, metabolic disorders, or infertility.

PCB 4843. Fundamentals of Neuroscience (3). Prerequisite: PCB 3134 and PCB 3743 or PCB 4701. This course emphasizes cellular and molecular approaches to neuroscience and brain function and emphasizes simple model systems including invertebrates.

Zoology

ZOO 3141L. Animal Diversity Laboratory (3). Prerequisite: BSC 3016. This introductory zoology laboratory course provides an overview of the diversity of animal form and function through comparisons of exemplar organisms representing the major animal phyla. Students are expected to dissect preserved specimens and to make detailed observations of both live (invertebrate) and preserved animals. Students develop critical zoological laboratory skills in dissection, the correct use of both compound and dissecting microscopes, the ability to carefully observe and draw specimens and images from microscope slides, and the application of their knowledge on laboratory practicals. Outside assignments allow students to recognize the diversity among our local fauna. The knowledge and skills gained from this course provide a solid foundation for more specialized studies in animal biology.

ZOO 3205. Advanced Invertebrate Zoology (2). Prerequisite: BSC 3312 and ZOO 3141L. Corequisite: ZOO 3205L. This course focuses on the structure, function, behavior, and evolution of the invertebrate phyla, especially those taxa living in the sea.

ZOO 3205L. Advanced Invertebrate Zoology Laboratory (2). Prerequisite: PCB 3034, PCB 3063, ZOO 3713C, or instructor permission. Corequisite: ZOO 3205. This laboratory deals with the structure, function, behavior and ecology of the invertebrate phyla, especially those taxa living in the sea.

ZOO 3713C. Comparative Vertebrate Anatomy (4). This course emphasizes form and function and origin and evolution of structure.

ZOO 4343C. Biology of the Lower Vertebrates (4). This course explores the systematics, ecology, and evolution of fishes, amphibians, and reptiles.

ZOO 4353C. Biology of Higher Vertebrates (4). (Omithology) This course covers the systematics, ecology, and evolution of birds and mammals.

ZOO 4454C. Biology of Fishes (4). This course provides an overview of the systematics, morphology, ecology, behavior, physiology, and life history of the most diverse group of vertebrates on earth, the fishes. It includes conservation and management issues and laboratory exercises balanced with field trips to different northwest Florida habitats, including freshwater springs, salt marshes, seagrass beds, and offshore reefs.

ZOO 4513. Animal Behavior (4). This course discusses modern perspectives of the behavior of animals.

ZOO 4753C. Histology (4). Prerequisite: PCB 3134. This course explores the microscopic anatomy and functions of the cells, tissues, and glands composing the organs and systems of humans.

Graduate Courses

Biochemistry

BCH 5886r. Special Topics in Biochemistry and Cell Biology (1–3).
BCH 5887r. Special Topics in Biochemistry and Cell Biology (1–3).

Botany

BOT 5505. Plant Physiology (3).
BOT 5938r. Selected Topics in Botany (1–4).
BOT 6936r. Seminar in Botany (2). (S/U grade only.)

Biological Science

BSC 5476C. Introduction to Scientific Diving (3).
BSC 5900r. Directed Individual Study (1–12). (S/U grade only.)
BSC 5932r. Graduate Tutorial in Biological Science (1). (S/U grade only.)
BSC 5936r. Selected Topics in Biological Science (1–4).
BSC 5945r. Supervised Teaching (1–2). (S/U grade only.)
BSC 6921r. Colloquium in Biological Science (1). (S/U grade only.)

Secondary Science Teaching

ISC 5098. Reflective Science Teaching (2).
ISC 5295. College Science Teaching and Learning (3).
ISC 5525. Accomplished Practices in Science Teaching (2).
ISC 5535. Research in the Content Area for Teachers (6).
ISC 5944. Ethics, School Law, and Management of Science Classrooms (3).
ISC 5945. Full-Time Teaching Internship (6). (S/U grade only.)
ISC 5946. Half-Time Teaching Internship (3). (S/U grade only.)
ISC 8939. Portfolio Review (0). (S/U grade only.)

Microbiology

MCB 5408. Prokaryotic Biology (3).

MCB 5505. Virology (3).

Process Biology

PCB 5029C. Intensive Modern Molecular Biology (4).
PCB 5137. Advanced Cell Biology (3).
PCB 5366. Ecophysiology (3).
PCB 5425. Population Ecology (3).
PCB 5447. Community Ecology (3).
PCB 5525. Molecular Biology (3).
PCB 5595. Advanced Molecular Biology (3).
PCB 5615. Ecological Genetics (3).
PCB 5672. Evolution (3).
PCB 5675. Advanced Evolutionary Biology (3).
PCB 5682 Macroevolution (3).
PCB 5786. Membrane Biophysics (3).
PCB 5795. Sensory Physiology (3).
PCB 5845. Cell and Molecular Neuroscience (4).
PCB 5936r. Selected Topics in Genetics and Cell Biology (1–4).
PCB 5938r. Selected Topics in Ecology and Evolutionary Biology (1–4).
PCB 6936r. Seminar in Genetics and Cell Biology (2). (S/U grade only.)
PCB 6938r. Seminar in Ecology and Evolutionary Biology (2). (S/U grade only.)

Neuroscience

PSB 5057. Neuroscience Methods: Molecules to Behavior (2). (S/U grade only.)
PSB 5077. Responsible Conduct of Research (2). (S/U grade only.)
PSB 5341. Systems and Behavioral Neuroscience (3).
PSB 5347. Molecular Neuropharmacology (3).
PSB 6070r. Current Problems in Neuroscience (2). (S/U grade only.)
PSB 6920r. Neuroscience Colloquium (1). (S/U grade only.)
PSB 6933r. Seminar in Neuroscience (1–2). (S/U grade only.)

Zoology

ZOO 5935r. Selected Topics in Zoology (1–4).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of BIOMEDICAL SCIENCES

College of Medicine

Website: *https://med.fsu.edu/biosci/home*

Chair: Richard Nowakowski; **Professors:** Blaber, Delp, Diaz, Galasko, Hajcak, Hurt, Joyce, Kabbaj, Laywell, Levenson, Nowakowski, Olcese, Overton, Ren, Stefanovic, Suo, Y. Wang; **Associate Professors:** Arbeitman, Bienkiewicz, Gunjan, Horabin, Kumar, Leadem, Lee, Meckes, Megraw, Pinto, Stanwood, Zhou; **Assistant Professors:** Irianto, Rizkallah, Tomko, Y. Wang; **Eminent Scholar:** Bhide; **Research Faculty I:** Duclot, Graham, Kao, Nemec, Pritchard, Rodriguez, Zhang; **Research Faculty II:** McCarthy, X. Wang, Zorio; **Assistants in Medicine:** Bradley, Connolly, Wu; **Associates in Research:** Foster, Vied, Y. Yang; **Senior Research Associate:** Didier, Mercer

Degrees Offered

The Department of Biomedical Sciences offers programs leading to the Bachelor of Science (BS) in Interdisciplinary Medical Sciences and the Doctor of Philosophy (PhD) in Biomedical Sciences.

The Interdisciplinary Medical Sciences (IMS) Bachelor of Science degree program is designed to prepare students for work in healthcare. Departments in seven Colleges at FSU have partnered to provide the curriculum for the program: College of Arts and Sciences, College of Communication and Information, College of Human Sciences, College of Medicine, College of Nursing, College of Social Sciences and Public Policy, and the College of Social Work. The IMS degree is based on competencies thought to be fundamental for careers in the health professions. These competencies include communication skills, use and knowledge of technology, awareness and respect for the roles of members of the health care team, ability to navigate in the health care system, scientific knowledge, life-long learning skills, and critical thinking skills.

The Doctor of Philosophy (PhD) in Biomedical Sciences at the Florida State University College of Medicine is designed to train modern biomedical scientists who use genomics, proteomics, bioinformatics, and other contemporary approaches to address questions of developmental, cell, and molecular biology related to human health. The program is appropriate for students with majors in biochemistry, biology, or other health-related fields. Three broad areas of research are emphasized: development, neuroscience, and the molecular basis of human disease. Research rotations during the first year allow students to make an informed choice regarding the research area and major professor with whom they will conduct their PhD work. A core curriculum of the fundamentals, the choice of electives from other departments, and intellectual interaction with faculty and postdoctoral fellows encourage graduate students to mature into independent scientists.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. This requirement is satisfied through BSC 2010L Biological Sciences I Lab course.

Oral Communication Competency

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met with an approved college-level course.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program**.

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program perquisites or their substitutions, necessary for admission into this upper-division degree program:

1. BSC X010C or BSC X007/X007L or BSC X005/X005L
2. CHM X045, X045L General Chemistry I and Lab or equivalence
3. CHM X046, X046L General Chemistry II and Lab or equivalence

4. PSY X012
5. MAC X114
6. ENC X101

Interdisciplinary Medical Sciences (BS)

The Interdisciplinary Medical Sciences (IMS) Bachelor of Science degree program is designed to provide a broad background to develop scientific and psychosocial knowledge, and an understanding of the healthcare team and the healthcare system. So that students may pursue their specialized and professional interests, three (3) interdisciplinary majors are offered: Clinical Professions; Community Patient Care; and Health Management, Policy and Information. The IMS degree program's rigorous science core curriculum, individualized advising, experiential service learning, and developmental seminar and capstone course sequence enable students to reach their potential academically and personally, determine a career path best suited for them, and develop the skills, attitudes, and acumen to attain their career goals.

The program includes three to four 1-credit hour experiential seminar courses that engage students with the challenges of healthcare in community, clinical, political, and research venues. The medical sciences seminar sequence leads to a senior capstone course which requires the submission of a scholarly report, an analytical essay on a healthcare issue, and a poster and oral presentation at a graduation colloquium. The capstone course meets the Scholarship in Practice and Upper Division Writing liberal studies requirements.

Resources are available to help students locate opportunities in clinics, community service organizations, hospitals, pharmacies, and physician offices for students to engage in the various ways healthcare is accessed. Students are required to obtain a minimum of 64 hours of experiential learning hours each academic year for a total of 256 experiential learning hours before graduation. These hours must be approved by the community coordinator in advance.

Although housed in the College of Medicine, the curriculum is delivered by seven (7) colleges at FSU. In addition to the College of Medicine, the College of Arts and Sciences, the College of Communication and Information, the College of Human Sciences, the College of Nursing, the College of Social Sciences and Public Policy, and the College of Social Work are IMS degree program partners.

Curriculum guides stating specific degree requirements for the undergraduate majors are available through the Office of Undergraduate Programs and through our Web site: *http://med.fsu.edu/imsDegree/home*.

Minor Requirements

Students majoring in any of the IMS majors are not required to complete a minor for their IMS degree. The FSU Registrar does not recognize, certify, or document minors in any way on a transcript. Therefore, the IMS degree program will not certify, document, or clear minors for students.

The IMS program does not offer any minors.

Honors in the Major

Because healthcare is a broad field of study and practice and the IMS degree spans seven colleges and numerous departments, an Honors in the Major thesis can be completed in a variety of disciplines. The Honors in the Majors topics must be health related and approved by the IMS Honors Director for the College of Medicine.

The Thesis Director for Honors in the Major must be full-time tenured or tenure-track FSU faculty member appointed in one of the FSU colleges approved for the IMS majors and meet the Thesis Director requirements of the University Honors Program.

Honors in the Major requires junior standing, a 3.2 GPA on at least 15 semester hours at FSU and all transfer work, and completion and defense of an honors thesis for 6 hours credit under the direction of a faculty committee. To graduate with honors is a worthwhile distinction. For more information, contact the IMS Honors Director, Dr. Elizabeth Foster, or the Honors Program office at *(850) 644-1841*.

Interdisciplinary Medical Sciences Core Course Requirements (86–91 hours)

All courses required for the IMS BS degree program must be completed with a grade of "C-" or better.

BSC 2010. Biological Science I (3)
BSC 2010L. Biological Science I Laboratory (1)
BSC 2011. Biological Science II (3)
BSC 2011L. Biological Science II Lab (1)
CHM 1045. General Chemistry I (3)
CHM 1045L. General Chemistry I Laboratory (1)
CHM 1046. General Chemistry II (3)
CHM 1046L. General Chemistry II Laboratory (1)
CHM 3120. Analytical Chemistry I (3)
CHM 3120L. Analytical Chemistry I Lab (1)
IHS 1100. Exploring Health Professions (1)
IHS 2121. Delivering Patient Care (1)
IHS 3122. Introduction to Medical Sciences (1)
IHS 3931. Problems and Issues in Healthcare (1)
IHS 4501. Inquiry in Healthcare Research (1)
IHS 4901. Interdisciplinary Medical Sciences Capstone Course (3)
MAC 1105. College Algebra (3)
MAC 1114. Analytic Trigonometry (3)
MAC 1140. Precalculus Algebra (3)
PHY 2053C. College Physics A (4)
PHY 2053L. College Physics A Laboratory (0)
PHY 2054C. College Physics B (4)
PHY 2054L. College Physics B Laboratory (0)
PSY 2012. General Psychology (3)

Organic Chemistry Sequences

Students must choose one of the following Organic Chemistry Sequences:

Organic Chemistry Option 1 (12 hours): Students thinking about Veterinary, Dental, or Pharmacy School will need to take this sequence.

CHM 2210. Organic Chemistry I (3).
CHM 2211. Organic Chemistry II (3).
CHM 2211L. Organic Chemistry II Laboratory (3).
BCH 4053. General Biochemistry I (3).

Organic Chemistry Option 2 (8 hours): Recommended for students who have earned a B or higher in both CHM 1045/L and CHM 1046/L.

CHM 3217. One Semester Organic Chemistry (3).
CHM 3217L. One Semester Organic Chemistry Laboratory (1).
CHM 3218. One Semester Biochemistry (4).

Clinical Professions Major

The Clinical Professions major expands and develops the solid science foundation needed to apply to medical school, dental school, physician assistant programs, and a number of other healthcare professions that require post-baccalaureate training. A student's program-of-study in the Clinical Professions major is dependent upon the health profession the student wishes to enter. Whether it is medicine, dentistry, veterinary medicine, physician assistant, or another field, pre-requisites, although similar, are different for each program. Students will meet with advisors to develop their individual program-of-study according to the admissions exams and requirements of their respective program goals. Students are responsible for knowing the requirements of the professional schools where they plan to apply.

Clinical Professions Upper Division Major Electives (33 hours)

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 21 hours mixed from both Science and Non-Science electives from IMS approved list

Clinical Professions Major Minimum Program Requirements - Summary

Total hours required: 120

- General Education: 36*; Prerequisite Coursework: 28*; Major Coursework: 59–64*; Minor Coursework: 0
- Computer Skills Competency: 0 beyond major
- Oral Communication Competency: 0–3

*24 to 27 hours of General Education, Prerequisite, and Major Coursework may overlap.

Community Patient Care Major

The Community Patient Care major prepares students to work directly with patients in a variety of venues, from health clinics to nonprofit respite providers. Students have five (5) areas in which they can concentrate their studies: Medical Spanish Interpreter, Developmental Disabilities, Child

Welfare Practice, Gerontology/Aging Studies, or Patient Health Navigation/Advocacy. Certificate programs are available for some of these options. Students do not receive a certificate for completing the courses required for the Community Patient Care major. In order to participate and earn the certificate options, students must consult with the home Colleges offering the certificates. Certificate programs have specific requirements beyond the requirements for the Community Patient Care major.

Community Patient Care Focus Options and Upper Division Major Electives (33 hours)

Community Patient Care majors must complete the series of courses within one of the five focus options in the major. In addition to the Focus Option Requirements listed below, a student's program of studies must include at least six credits of upper-level science courses and six credits of upper level non-science courses from the Major Electives List for a total of 33 hours of major electives.

Medical Spanish Interpreter Option

Prerequisites: SPN 3300 or SPN 3350, SPN 3400, and SPC 3210..

ADV 3410. Hispanic Marketing Communication (3).

OR

ADV 4411. Multicultural Marketing Communication (3).

OR

NSP 3185. Multicultural Factors and Health (3).

SPC 2730. Global Perspectives: Communication (3).

OR

SPC 4710. Interracial/Intercultural Communication (3).

OR

NSP 3185. Multicultural Factors and Health (3).
SPN 4036. Spanish Medical Interpreting (3).
SPN 4420. Advanced Spanish Composition and Translation (3).

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 9 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Developmental Disabilities Option

EAB 3703. Applied Behavior Analysis (3).
FAD 3220. Individual and Family Life Span Development (3).

OR

SOW 4602. Social Work in Health Settings (3).
SPA 2001. Introduction to Communication Sciences and Disorders (3).

3 credits from the following list:

ARE 4930. Special Topics in Art and Education (3).
ASL 2510. Deaf Culture (3).
CHD 2220. Child Growth and Development: The Foundation Years (3).
EDF 2085. Teaching Diverse Populations (3).
EEX 4201. Typical and Atypical Development and Learning (3).
EEX 4770. Study of Human Exceptionality (3).
FAD 2230. Family Relationships: A Life Span Development Approach (3).
FAD 3220. Individual and Family Life Span Development (3).
FAD 4601. Foundations of Counseling (3).
IDS 2321. The Blindness Experience (3).
MUY 4401. Music Therapy: Methods and Practicum I (3).
NSP 3185. Multicultural Factors and Health (3).
NSP 3425. Women's Health Issues: Concerns Through the Life Cycle (3).
SOW 4602. Social Work in Health Settings (3).
SOW 4615. Family Violence Across the Life Span (3).
SOW 4645. Gerontological Social Work (3).
SOW 4650. Child Welfare Practice (3).

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 9 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Child Welfare Practice Option

SOW 4615. Family Violence across the Lifespan (3).
SOW 4650. Child Welfare Practice (3).
SOW 4658. Child Maltreatment and Child Welfare (3).
SOW 4702. Substance Abuse and Misuse (3).

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 9 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Gerontology/Aging Studies Option

DEP 4404. Psychology of Adult Development and Aging (3).

OR

NSP 3425. Women's Health Issues: Concerns Through the Life Cycle (3).
SOW 4602. Social Work in Health Settings (3).
SOW 4645. Gerontological Social Work (3).
SYP 3730. Aging and the Life Course (3).

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 9 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Patient Health Navigation/Advocacy Option

CLP 3305. Clinical and Counseling Psychology (3).

OR

NUR 3177. Holistic and Complementary Approaches to Health and Healing (3).
IHS 4123. Narrative Medicine: Patient-Centered Care and the Individual Story (3).
NUR 3076. Communication in Health Care (3).

OR

NSP 3185. Multicultural Factors and Health (3).

3 credits from the following list:

ECP 4530. Economics of Health (3)
PAD 4844. Public Health and Emergency Management (3)
PHC 4030. Introduction to Epidemiology (3)
PHC 4101. Introduction to Public Health (3)
PHC 4157. Health Policy and Society (3)
PHC 4470. Health Behavior and Health Promotion (3)
PUP 4931. Special Topics: Health Services Organization and Policy (3).

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 9 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Community Patient Care Major Minimum Program Requirements - Summary

Total hours required: 120

- General Education: 36*; Prerequisite Coursework: 28*; Major Coursework: 59–64*; Minor Coursework: 0
- Foreign Language: 0–12 (recommended, not required); Computer Skills Competency: 0 beyond major
- Oral Communication Competency: 0–3

*24 to 27 hours of General Education, Prerequisite, and Major Coursework may overlap.

Health Management, Policy and Information Major

The Health Management, Policy and Information major prepares students for research or work in government, public health, and hospital and clinic administration and management. Students choose one of two (2) focus options; health information technology or public health administration and policy. Health Management, Policy and Information majors must complete the series

of courses within 1 of the 2 focus options in the major. Certificate programs are available for one of the options. Students do not receive a certificate for completing the courses required for the Health Management, Policy and Information major. In order to participate and earn the certificate options, students must consult with the home College offering the certificate.

Health Management, Policy and Information Major Electives (33 hours)

Health Management, Policy and Information majors must complete the series of courses within one of the two focus options in the major. In addition to the Focus Option Requirements listed below, a student's program of studies must include at least six credits of upper-level science courses and six credits of upper level non-science courses from the Major Electives List for a total of 33 hours of major electives.

Health Information Technology Option

IDS 3493. Empowering Health Consumers in the eHealth era (3).

OR

LIS 4772. Introduction to Consumer Health Informatics (3).
LIS 4776. Advanced Health Informatics (3).
LIS 4785. Introduction to Health Informatics (3).
NUR 3076. Communication in Health Care (3).

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 9 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Public Health Administration & Policy Option

PHC 4030. Introduction to Epidemiology (3).
PUP 4931r. Special Topics in Public Policy [Only this Special Topics course will be accepted: Health Services Organization & Policy (3).

OR

ECP 4530. Economics of Health (3).

OR

PAD 4844. Public Health and Emergency Management (3).

OR

PHC 4101. Introduction to Public Health (3).

OR

PHC 4157. Health Policy and Society (3).
SYO 4402. Medical Sociology (3).

9 credits from the following list:

ECP 4530. Economics of Health (3).
GEO 4450. Medical Geography (3).
PAD 4372. Leadership & Communication in Emergency Management (3).
PAD 4833. International and Comparative Disaster Management (3).
PAD 4844. Public Health and Emergency Management (3).
PHC 4101. Introduction to Public Health (3).
PHC 4157. Health Policy and Society (3).
PHC 4470. Health Behavior and Health Promotion (3).
SYD 3020. Population and Society (3).
SYP 3730. Aging and the Life Course (3).
SYA 4930 Special Topics [Only these Special Topics courses will be accepted: Sociology of Death & Dying, Sexual & Reproductive Health, or Politics of Reproduction] (3)

- 6 hours of Science electives from IMS approved list
- 6 hours of Non-Science electives from IMS approved list
- 3 hours mixed from both Science and Non-Science electives from IMS approved list

Total elective credits: 33 hours

Health Management, Policy and Information Major Minimum Program Requirements - Summary

Total hours required: 120

- General Education: 36*; Prerequisite Coursework: 28*; Major Coursework: 59–64*; Minor Coursework: 0; Computer Skills Competency: 0 beyond major
- Oral Communication Competency: 0–3

*24 to 27 hours of General Education, Prerequisite, and Major Coursework may overlap.

IMS Major Elective Courses: Science and Non-Science

ANT 2410. Introduction to Cultural Anthropology (3)
ANT 2511. Introduction to Physical Anthropology and Prehistory (3)
ANT 4462. Introduction to Medical Anthropology (3)
ANT 4468. Bones, Bodies, & Disease (3)
ANT 4525. Human Osteology (3)
APK 2001. Medical and Scientific Terminology (3)
BCH 4054. General Biochemistry II (3)
BMS 4007. Introduction to Molecular Medicine (4)
BMS 4901r. DIS in Biomedical Sciences (1–4)
BMS 4932. Special Topics in Biomedical Sciences (1–3)
BMS 4XXX. Ethics and Professionalism in Healthcare (3)
BSC 2085. Anatomy and Physiology I (3)
BSC 2085L. Anatomy and Physiology I Laboratory (1)
BSC 2086. Anatomy and Physiology II (3)
BSC 2086L. Anatomy and Physiology II Laboratory (1)
BSC 4933r. Special Topics in Biological Science (3)
CHD 3243. Contexts of Adolescent Development (3)
CHM 4610. Inorganic Chemistry (3)
CHM 4610L. Inorganic Chemistry Laboratory (1)
CHM 4130. Advanced Analytical Chemistry (3)
CHM 4130L. Advanced Analytical Chemistry Laboratory (1)
CLP 3305. Clinical and Counseling Psychology (3)
CLP 4143. Abnormal Psychology (3)
ECP 4530. Economics of Health (3)
ENT 4934. Special Topics in Entrepreneurship (3) [Only these Special Topics courses will be accepted: Biomedical Innovation and Entrepreneurship]
FAD 2230. Family Relationships: A Life Span Development Approach (3)
FAD 3220. Individual and Family Life Span Development (3)
FAD 3343. Contexts of Adult Development and Aging (3)
FAD 4451. Human Sexuality Education (3)
FAD 4455. Family Life Education (3)
GEO 4450. Medical Geography (3)
HIS 3491. Medicine and Society (3)
HSC 4711. Wellness/Health Risk Reduction (3)
HUN 3403. Life Cycle Nutrition (3)
IDS 3493. Empowering Health Consumers in the eHealth Era (3)
IHS 4120. Frontiers in Medicine (3)
IHS 4123. Narrative Medicine: Patient-Centered Care and the Individual Story (3)
IHS 4932r. Special Topics in Health Sciences and Healthcare (1–3)
MCB 4403. Prokaryotic Biology (3)
MCB 4403L. Prokaryotic Biology Laboratory (2)
MHS 4001. The Human Services Profession (3)
NUR 3076. Communication in Healthcare (3)
PAD 4833. International and Comparative Disaster Management (3)
PAD 4844. Public Health and Emergency Management (3)
PAD 4372. Leadership and Communication in Emergency Management (3)
PAS 2054r. Introduction to the PA Profession (3)
PCB 4701. Human Physiology (3)
PCB 3063. General Genetics (3)
PCB 3134. Cell Structure and Function (3)
PCB 3743. Vertebrate Physiology (3)
PCB 4024. Molecular Biology (3)
PCB 4233. Immunology (3)

PCB 4233L. Laboratory in Immunology (1)
PCB 4253. Developmental Biology (3)
PCB 4253L. Developmental Biology Laboratory (3)
PCB 4701. Human Physiology (3)
PET 3322. Functional Anatomy and Physiology I (3)
PET 3322L. Functional Anatomy and Physiology Laboratory I (1)
PET 3323C. Functional Anatomy and Physiology II (4)
PET 4076. Physical Dimensions of Aging (4)
PHZ 4702. Biomedical Physics I (3)
PHZ 4703. Biomedical Physics II (3)
PSB 2000. Introduction to Brain and Behavior (3)
PSB 3004C. Physiological Psychology with Laboratory (4)
PSY 4930r. Special Topics in Psychology (3) [Only this Special Topics course will be accepted: Industrial and Organizational Psychology]
REL 3180. Religion and Bioethics (3)
SOP 3004. Social Psychology (3)
SOW 4935. Special Topics in Social Work (3) [Only this Special Topics course will be accepted: Treating Tobacco Dependency]
SYO 4402. Medical Sociology (3)
SYO 3100. Families and Social Change (3)
SYP 3000. Social Psychology of Groups (3)
SYP 3730. Aging and the Life Course (3)
URP 4936. Special Topics in Urban and Regional Planning (3) [Only this Special Topics course will be accepted: Healthy Cities, Healthy Communities]
ZOO 3713C. Comparative Vertebrate Anatomy (4)
ZOO 4753C. Histology (4)

Definition of Prefixes

ADV—Advertising
ANT—Anthropology
APK—Applied Kinesiology
ARE—Art Education
ASL—American Sign Language
BCH—Biochemistry
BMS—Biomedical Sciences
BSC—Biological Sciences
CHD—Home Economics: Child Development
CHM—Chemistry
CLP—Clinical Psychology
DEP—Developmental Psychology
EAB—Experimental Analysis of Behavior
EDF—Foundations and Policy Studies
EEX—Education: Exceptional Child
ENT—Entrepreneurship
FAD—Family Development
GEO—Geography: Systematic
GMS—Graduate Medicine Sciences
HSC—Health Sciences
HUN—Human Nutrition
IHS—Interdisciplinary Health Sciences
ISS—Interdisciplinary Social Sciences
MCB—Microbiology
MDU—Undergraduate Medicine Courses
MUY—Music Therapy
NSP—Nursing: Special
NUR—Nursing
PAD—Public Administration
PAS—Physician Assistant
PCB—Process Biology
PSB—Psychobiology
PET—Physical Education Theory
PHC—Public Health Concentration
PHY—Physics
PHZ—Physics (Continued)
PUP—Public Policy
REL—Religion Undergraduate
SOW—Social Work
SPA—Speech Pathology and Audiology
SPC—Speech Communication
SPN—Spanish Language
SOW—Social Work
SYO—Sociological Organization
SYP—Social Processes
URP—Urban and Regional Planning
ZOO—Zoology

Undergraduate Courses

BMS 4007. Introduction to Molecular Medicine (4). Prerequisites: CHM 2210 and CHM 2211; or CHM 3217. This course introduces the concept of the main molecular mechanisms that mediate human health and disease and emphasizes molecular cell biology and immunology to understand human health and diseases, and the mechanisms that impact immune response such as inflammation and cancer. Students also participate in active learning, applying the knowledge they acquire in the lectures.

BMS 4861. Multicultural Health Care and Health Disparities (3). This course reviews the impact of culture and ethnicity on health, illness, and health care practices. The course exposes students interested in a career in health care to the challenges of providing care to a multicultural society through exposure to theory, evidence-based practices, and self-exploration through service learning with an underserved population.

BMS 4901r. DIS in Biomedical Sciences (1–4). Prerequisite: Instructor permission. Must have a combined GPA of 3.0 in biology, chemistry, and physics coursework. This directed individual study course in biomedical sciences offers a unique opportunity for undergraduate students to perform research in the biomedical science laboratories in the College of Medicine. Students perform special supervised study or research in the area of the faculty member's research. An oral presentation and a final report of the research in the format of a short scientific publication is required. May be repeated to a maximum of fifteen semester hours.

BMS 4903r. Honors Work in Biomedical Sciences (1–3). Prerequisite: Admission to the FSU Honors in the Major Program and approved by the IMS Honors Liaison. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours. A maximum of nine research credit hours may count toward IMS degree upper division electives. This may be a combination of DIS and/or Honors Work. DIS and Honors Work in the Interdisciplinary Medical Sciences Program are letter graded.

BMS 4906r. Honors Work in Clinical Sciences (1–3). Prerequisite: Admission to the FSU Honors in the Major Program and approved by the IMS Honors Liaison. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours. A maximum of nine research credit hours may count toward IMS degree upper division electives. This may be a combination of DIS and/or Honors Work. DIS and Honors Work in the Interdisciplinary Medical Sciences Program are letter graded.

BMS 4932r. Special Topics in Biomedical Sciences (1–3). Prerequisites: BSC 2011, CHM 1046, and PCB 3063; or instructor permission. This course teaches students to identify the intersection of the fields of biology and medicine with a focus on human health issues and demonstrate knowledge in areas such as biochemical functions, physiological functions, anatomical and histological structures, epidemiology of population groups, or pharmacology applications by delving into related cell and molecular biology, parasitology, and toxicology, found in biomedical research. May be repeated within the same term up to nine semester hours.

IHS 1100. Exploring Health Professions (1). Prerequisite: Interdisciplinary Medical Sciences major status. This seminar informs students on careers and career pathways in health professions and the academic, professional, and personal preparation needed to pursue a career in health. Class meetings, activities, and guest speakers are planned to inform students on healthcare and the health professions, knowledge of the various roles of the healthcare team, and the resources to help students explore their career interests and goals.

IHS 3931. Problems and Issues in Healthcare (1). Prerequisite: IHS 2121, or IHS 3122; and Interdisciplinary Medical Science Major status. In this course, students build upon experiential learning opportunities and further their understanding of key issues facing healthcare, patients, providers, institutions, and communities by examining and reading scholarly works. Assignments and activities help students to identify and generate content (through research or hands-on experiences that emphasize a breadth of knowledge in the field) to serve as the foundation for future research on a problem or issue in healthcare.

IHS 4120. Frontiers in Medicine (3). This course aims to provide advanced undergraduate students the opportunity to gain an understanding of common human disease conditions through a highly interactive set of learning activities. We recommend that students have taken physiology, genetics and biochemistry. Examples of topics covered include heart failure, cancer, diabetes, depression and Alzheimer's disease.

IHS 4123. Narrative Medicine: Patient-Centered Care and the Individual Story (3). Prerequisites: ENC 1101, and one of the following courses; ENC 1102 or ENC 2135, for a total of six credits of English. In this course, students learn the tenets of narrative medicine and explore the role of narrative in improving clinician understanding of the individual patient's unique experience. To build narrative skill, students analyze and interpret various illness experiences as depicted in select stories, poems, and non-fiction medical narratives. Students also expand their understanding of narrative medicine and what it means to practice patient-centered care through various analytical and reflective writing assignments.

IHS 4900r. Honors Work in Health Sciences (1–3). Prerequisite: Admission to the FSU Honors in the Major Program and approval by the IMS Honors Liaison. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours. A maximum of nine research credit hours may count toward IMS degree upper division electives. This may be a combination of DIS and/or Honors Work. DIS and Honors Work in the Interdisciplinary Medical Sciences Program are letter graded.

IHS 4904r. Directed Individual Study in Health Sciences (1–4). This course is for undergraduate students who wish an individualized research experience in the Medical Humanities and Social Sciences, Public Health, or other fields represented in the College of Medicine. Students receive training in research methods and improve their readiness for and appreciation of research in health-related science.

IHS 4932r. Special Topics in Health Sciences and Health Care (1–3). This course provides students instruction in the health sciences such as healthcare disparity, patient-centered care, and other topics necessary to understand the healthcare system and patient care issues.

ISS 4304. Contemporary Social Problems (3). This course is designed to introduce the benefits and methods of interdisciplinary research and study. This course uses multiple and interrelated perspectives to identify and explore social issues and problems. Students are guided through the process of building interdisciplinary perspectives to maximize cognitive skills, critical thinking and problem solving skills.

MDU 1000. Careers in Medicine: Preparation to Practice (1). (S/U grade only.) This course is intended for all undergraduates who are seriously considering a career in medicine. Students learn how to successfully prepare for the academic, personal, and professional rigors of medical school and for a career in medicine. Students are encouraged to take this course early in their undergraduate years, so they can pursue the appropriate academic coursework, volunteer, and earn medical experience that will help them become successful medical school applicants and health professionals.

Graduate Courses

BMS 5081. Introduction to Clinical Ethics (2).
BMS 5082. Ethics in the Clinical Setting (4–6).
BMS 5122. Insights into Human Congenital and Developmental Disorders (3).
BMS 5185r. Research Opportunities in Biomedical Sciences (1–4).
BMS 5186C. Research Techniques in Biomedical Sciences (2–4).
BMS 5525. Bioregulation (4).
BMS 5905r. Directed Independent Study in Biomedical Sciences (1–12).
BMS 5931. Graduate Tutorial in Biomedical Sciences (1). (S/U grade only.)
BMS 5935r. Advanced Topics in Biomedical Sciences (1–2).
BMS 6900r. Directed Individual Study in Biomedical and Clinical Sciences (2–9).
BMS 6936r. Seminar in Biomedical Sciences (1–2).
ENT 5626. Biomedical Entrepreneurism (3).
GMS 5095r. Modeling Human Disease (3).
GMS 5098. Critical Review of the Scientific Literature (1–2). (S/U grade only.)
GMS 5222r. Chromatin Structure, Epigenetics and Human Health (3).
GMS 5303. Molecular Mechanism of Common Human Diseases (3).
GMS 5304. RNA Silencing and Disease (3).
GMS 6001r. Special Topics in Biomedical Sciences (1–3).
GMS 6097Cr. Biomedical Sciences Research (3).
GMS 6955. Presentation Skills in Biomedical Sciences (3). (S/U grade only.)
IHS 5503r. Proposal Development (1).
IHS 5515. Ethics and Professional Integrity in Research (1).
IHS 5905r. Directed Individual Study in Health Sciences (1–12).
IHS 5906r. Directed Individual Study in Medical Sciences (1–12).
IHS 5933. Seminar on Medical Science Education (1).
IHS 5935r. Health Sciences Seminar (1).
IHS 5945r. Supervised Teaching (1–5).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of BUSINESS ANALYTICS, INFORMATION SYSTEMS AND SUPPLY CHAIN

College of Business

Website: *https://business.fsu.edu/departments/baissc/*
Chair: Ashley Bush; **Professors:** D. Armstrong, Brusco, Bush, Cradit, Giunipero; **Associate Professors:** Tang, Shang; **Assistant Professors:** Choi, Ilk, Lu; **Senior Lecturer:** K. Armstrong, Kerwin, Larsen, Sun; **Senior Research Scholar:** Etschmaier; **Bank of America Professor of Data Analytics:** Cradit; **Sprint Professor of Management Information Systems:** Bush; **Synovous Professor of Business Administration:** Brusco

The Department of Business Analytics, Information Systems and Supply Chain administers the undergraduate degree program in Management Information Systems (MIS).

The undergraduate major in Management Information Systems is designed for those who want to learn more about the intersection of people, processes, and technology in order to provide competitive advantage to organizations. The purpose of the Management Information Systems program is to provide students with a broad understanding of the role and use of managerial technology in the various functional areas of modern organizations. With this understanding students will design, implement, and manage systems for use in problem solving, decision making, and innovation in organizations. The overall intent is to prepare the student for entry-level positions in medium- and large-sized organizations leading to high-level technical or managerial careers in both the public and private sectors. Students who successfully complete the Management Information Systems major receive a Bachelor of Science (BS) degree in Management Information Systems. The program Web site is accessible at *https://business.fsu.edu/undergraduate/majors/mis*.

The department also offers a combined BS/MS-MIS pathway and a combined BS/MBA pathway that allows highly qualified undergraduate students the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MS-MIS or MBA degrees. Detailed descriptions of the MS-MIS and MBA program can be found in the Graduate Bulletin.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Management Information Systems satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 (state mandated business prerequisite requirement) or CGS 2518.

Note: CGS 2518 with a "C–" or better is a graduation requirement for students in the MIS major.

Required Risk in Business and Society Course

All undergraduates at Florida State University intending to enter a business major should complete RMI 2302, Risk in Business and Society, with a "C–" or better by the end of their sophomore year, but no later than their fifth mapping term.

Required Professional Development Course

All undergraduates entering Florida State University in Fall 2019 and later must complete a one-credit course in professional development, GEB 1030, with a "C–" or better by the end of their fifth mapping term. However, students are encouraged to complete the course by the end of their sophomore year to take full advantage of the material.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X022 or ACG X001 and ACG X011
2. ACG X071 or ACG X301
3. CGS X100 (or demonstrated competency) or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
4. ECO X013
5. ECO X023
6. MAC X233 or MAC X230
7. STA X023 or STA X122 or QMB X100

Management Information Systems Program

All students must complete: (1) the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*; (2) the state of Florida common prerequisites for management information systems majors; (3) the general business core requirements for Management Information Systems majors; (4) the general business breadth requirements for Management Information Systems majors; and (5) the major area requirements for Management Information Systems majors.

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a Management Information Systems major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All Management Information Systems majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal Environment of Business (3)
FIN 3403 Financial Management of the Firm (3)
GEB 3213 Business Communications (3)
ISM 3541 Introduction to Business Analytics (3)
MAN 3240 Organizational Behavior (3)
MAR 3023 Basic Marketing Concepts (3)

General Business Breadth Requirements

All Management Information Systems majors must complete three courses as follows. Each course selected must be completed with a grade of "C–" or better.

MAN 4720 Strategic Management and Business Policy (3)

Plus two electives from the following list of courses:

FIN 3244 Financial Markets, Institutions, and International Finance Systems (3)
ISM 3003 Foundations of Management Information Systems (3)
MAN 3600 Multinational Business Operations (3)
MAR 3231 Retail Management (3)
MAR 3400 Professional Selling (3)
QMB 3200 Quantitative Methods for Business Decisions (3)
REE 3043 Real Estate (3)
RMI 3011 Risk Management/Insurance (3)

Capstone Course

All management information systems majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C–" or better.

Major Area Requirements

All Management Information Systems (MIS) majors must complete six courses as listed below. Due to the dynamic nature of the MIS field, all students should verify the current MIS major requirements with the MIS undergraduate advisor upon entry to the major. A grade of "C–" or better must be earned in each course used to satisfy the MIS major area requirements. In all cases, prerequisites to courses must be completed with a grade of "C–" or better before subsequent courses may be entered.

ISM 4113 Management Information Systems Analysis and Design (3)
ISM 4212 Information for Operating Control and Data Management (3)
ISM 4220 Information and Communications Systems Management (3)

Plus three electives from the following list of courses including at least one programming course indicated with an asterisk below:

***CGS 3406** Object-Oriented Programming in C++ (3)
***CGS 3416** Java Programming for Non-Specialists (3)
***COP 3014** Programming I (3)
***COP 4125** Advanced Application Development (3)
ISM 3540 Big Data (3)
ISM 4117 Business Intelligence (3)
ISM 4300 Technology Management (3)
ISM 4314 Project Management (3)
ISM 4482 Mobile Technology (3)
ISM 4545 Data Analytics and Mining for Business (3)
ISM 4930r Special Topics in MIS (3)
MAR 4524 Consumer Demand Analytics with Big Data (3)
QMB 4700 Operations Research for Managerial Decisions (3)

Honors in the Major

The Department of Business Analytics, Information Systems and Supply Chain offers honors in the major to encourage talented students to undertake independent and original research as part of the undergraduate experience. For requirements and other information see the "University Honors Office and Honor Societies" chapter of this *General Bulletin.*

Requirements for a Minor in Business Analytics

The Business Analytics Minor is designed to produce analytically savvy students who will be adept at working in interdisciplinary teams in any organization to solve complex business problems. This is not a University degree program leading to a diploma. The Business Analytics Minor will consist of 12 credit hours. Students interested in pursuing the minor should register their intent to do so with the College of Business Undergraduate Advising office prior to starting the minor. Students are encouraged to begin their minor coursework at least three semesters before graduation.

The Business Analytics minor is open to both College of Business and non-College of Business students. Students are required to complete four 3-hour electives as described below. Only coursework with a grade of "C–" or above will count toward the minor. All courses must be completed at FSU.

X = Courses that will satisfy the minor requirement.

		MIS major	COB major (non-MIS)	Other major (non-COB)
ISM 3540	Big Data	X	X	X
ISM 3541	Introduction to Business Analytics			X
ISM 4117	Business Intelligence	X	X	X
ISM 4212	Information for Operating Control and Data Management		X	X
ISM 4545	Data Analytics and Mining for Business	X	X	X
MAR 4524	Consumer Demand Analytics with Big Data	X	X	X
QMB 4700	Operations Research for Managerial Decisions	X	X	X

Definition of Prefixes

CGS—Computer General Studies
COP—Computer Programming
GEB—General Business
IDC—Interdisciplinary Computing
ISM—Information Systems Management
MAN—Management
MAR—Marketing
QMB—Quantitative Methods in Business

Undergraduate Courses

CGS 2518. Spreadsheets for Business Environments (3). This course provides an in-depth study of spreadsheets utilizing a problem-solving approach. Spreadsheet-based solutions are explored for common business tasks and problems. The course presents a thorough coverage of spreadsheet functions and tools, along with a deep understanding of their purpose in a business environment. The course is ideal for students with professional interests related to business and economics, as well as for students wishing to obtain a deeper understanding of spreadsheets in general.

COP 4125. Advanced Application Development (3). Prerequisite: CGS 2518. This course presents advanced application development methodology, technology, and tools. Students work individually and in teams in the applied study of complex systems development problems and cases.

GEB 4941r. Business Internship (0–6). (S/U grade only.) Prerequisite: Instructor permission. This business internship is designed for College of Business students who desire to gain real-world experience in the accounting field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor, and the internship director. May be repeated to a maximum of six semester hours.

IDC 3931. Special Topics in Interdisciplinary Computing - Intermediate Level (3). This course covers current issues and topics in interdisciplinary computing that are not discussed in other courses. Topics vary. May be repeated within the same term, to a maximum of nine semester hours.

ISM 3003. Foundations of Management Information Systems (3). Prerequisite: CGS 2518. This course provides a broad overview of the role of management information systems (MIS) within organizations with an emphasis on understanding the three key resources that MIS focuses on – people, information, and information technology.

ISM 3011. Introduction to Management Information Systems (3). Prerequisite: CGS 2100. This course is an introduction to management information systems concepts, with emphasis on describing information requirements, managing information resources, and applying information processing technology to business and management.

ISM 3540. Big Data (3). This introductory course addresses issues surrounding the accumulation, transformation and analysis of large datasets typically encountered in both business and research environments. Additionally, students work in a classroom lab setting using cutting-edge technologies to analyze and mine data associated with their interests.

ISM 3541. Introduction to Business Analytics (3). This course provides students with an introduction to basic business analytics concepts and applications. The course covers the principles of data analytic thinking and provide a solid foundation for data driven decision making in various business and organizational settings. The course places special emphasis on working through applications and examples of analytics in the real world.

ISM 4113. Management Information Systems Analysis and Design (3). This course is an in-depth treatment of the theory and practice of management information systems including information requirements analysis, design methodology, and system implementation considerations.

ISM 4117. Business Intelligence (3). This course helps students explore managerial, strategic, and technical issues associated with developing and deploying Business Intelligence applications.

ISM 4212. Information for Operating Control and Data Management (3). Prerequisite: ISM 4113. This course covers the theory, techniques, and applications of information management and control including organizations as information-processing systems and executive support systems.

ISM 4220. Information and Communications Systems Management (3). Prerequisite: ISM 4113. This course is an introduction to the design, operation, and management of telecommunication systems including electronic data interchange, office support, transborder information flow, and management support for networking. For MIS majors only.

ISM 4300. Technology Management (3). Prerequisite: ISM 4212. This course focuses on the strategy and theory of the creation, development, introduction, management, and marketing of new technologies and services. Management of the appropriate technological environment of an organization is emphasized. Concepts and approaches to e-commerce and e-business.

ISM 4314. Project Management (3). Prerequisite: ISM 4113. This course covers the fundamental knowledge areas related to successful project management. Topics include project selection and initiation, work breakdown structure and scope management, scheduling, budgeting and cost analysis, quality control, project communication plans, project risk analysis, resource leveling, and procurement issues.

ISM 4482. Mobile Technology Management (3). This course explores factors related to the management of the design, implementation, and installation of applications on mobile devices. Topics cover issues related to platform size (such as memory, power, screen brightness, and sound capability), implications of connectivity and security problems for management, as well as business opportunities that become available through the use of mobile technology.

ISM 4545. Data Analytics and Mining for Business (3). This course discusses the most important data analytics and mining techniques to support data-driven decision making and help corporations acquire knowledge from large data sets. Specifically, it introduces methods such as clustering, classification, association rule mining, etc. through a hands-on approach using specialized software.

ISM 4905r. Directed Individual Study (1–3). May be repeated to twelve semester hours.

ISM 4930r. Special Topics in Management Information Systems (1–3). This course provides an opportunity to study current issues in management information systems and topics not covered in other courses. May be repeated to a maximum of nine semester hours as content varies. Prerequisites vary depending on the topic of the course; refer to department for details.

ISM 4941r. Field Study in Management Information Systems (1–3). (S/U grade only.) Prerequisite: ISM 4212. This course provides students with learning opportunities in organizational management information systems beyond those available in existing MIS courses. No more than three credit hours allowed in a semester. May be repeated to a maximum of six semester hours.

ISM 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine semester hours. Six semester hours of thesis are required to complete honors in the major.

MAN 3504. Service Operations Management (3). Prerequisites: CGS 2100 and QMB 3200. This course covers methodology and theory of the design and management of productive systems, especially in the services industry. Includes quantitative techniques and procedures for process analysis.

MAR 3461. Principles of Purchasing (3). Prerequisite: MAR 3023. This course is an introduction to the concepts, principles, and techniques of purchasing physical resources for all types of organizations.

MAR 4203. Logistics and Supply Chain Management (3). Prerequisite: MAR 3023. This course introduces the student to the management of logistics activities involved in the flow of goods, information, and funds throughout the supply chain.

MAR 4524. Consumer Demand Analytics with Big Data (3). This course is an advanced undergraduate class for mainly business students. However, students from economics, engineering, and other disciplines may also find it useful.

QMB 4700. Operations Research for Managerial Decisions (3). This course focuses on the prescriptive perspective. The course studies many of the mathematical tools available to the decision maker to use the information derived from descriptive and predictive analytics.

Graduate Courses

GEB 5944r. Graduate Internship (1–6). (S/U grade only.)
ISM 5008. Fundamentals of Managing Information Technologies (3).
ISM 5021. Information and Technology Management (3).
ISM 5046. Social and Organizational Issues in MIS (3).
ISM 5123. Systems Analysis and Design (3).
ISM 5125. Advanced Systems Analysis and Design (3).
ISM 5136. Data Analytics and Mining for Business (3).
ISM 5206. Database Development and Management (3).
ISM 5207. Advanced Database Management (3).
ISM 5226. Network Development and Management (3).
ISM 5227. Advanced Telecommunications Management (3).
ISM 5315. Project Management (3).
ISM 5316. Advanced Project Management (3).
ISM 5327. Corporate Information Security (3).
ISM 5404. Business Intelligence (3).
ISM 5428. Knowledge Management (3).
ISM 5507. E-Business (3).
ISM 5560. Data Management in Business Analytics (3).
ISM 5564. Business Analytics for Competitive Advantage (3).
ISM 5565. Foundational Concepts for Business Analytics (3).
ISM 5566. Forecasting, Revenue Management, and Pricing (3).
ISM 5569. Business Analytics Capstone (3).
ISM 5644. Programming for Analytics (3).
ISM 5906r. Directed Individual Study (1–3). (S/U grade only.)
ISM 5907r. Special Studies in Management: Information and Systems Management (1–3).
ISM 5935r. Special Topics in Information and Management Sciences (1–3).
ISM 6109. Doctoral Seminar in General Systems Theory (3).
ISM 6395. Doctoral Seminar in Management Information Systems (3).
ISM 6405. Doctoral Seminar in Decision Processes and Structures (3).
ISM 6885. Seminar on Applied MIS Research (3).
ISM 6917r. Supervised Research (1–3). (S/U grade only.)
ISM 6919r. Supervised Teaching (1–3). (S/U grade only.)
ISM 6979. Doctoral Seminar in Research Methods and the Philosophy of Science (3).
MAN 5375. HR Analytics (3).
MAN 5501. Operations Management (3).
MAN 5721. Strategy and Business Policy (3).

MAN 6235r. Doctoral Seminar in Organizational Theory (3).
MAR 5465. Purchasing and Supply Chain Management (3).
MAR 5466. Logistics and Supply Chain Management (3).
MAR 5726. Electronic Business in Supply Chain Marketing (3).
MAR 6636. Quantitative Methods I: Measurement, Scaling, and Choice (3).
QMB 5616. Probabilistic Optimization Methods for Analytics (3).
QMB 5755. Quantitative Methods in Business Analytics I (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the Graduate Bulletin.

ENVIRONMENTAL ENGINEERING:
see Civil and Environmental Engineering

ENVIRONMENTAL PLANNING AND NATURAL RESOURCE MANAGEMENT:
see Urban and Regional Planning

ENVIRONMENTAL STUDIES:
see Geography

EVALUATION AND MEASUREMENT:
see Educational Psychology and Learning Systems

EVOLUTIONARY BIOLOGY:
see Biological Science

EXERCISE PHYSIOLOGY:
see Nutrition, Food and Exercise Sciences

Undergraduate Department of CHEMICAL AND BIOMEDICAL ENGINEERING

FAMU–FSU College of Engineering

Website: *http://www.eng.famu.fsu.edu/cbe*
Chair: Bruce R. Locke; **Professors:** Alamo, Kalu, Locke, Ramakrishnan, Siegrist, Yeboah; **Associate Professors:** Arnett, Grant, Guan, Hallinan, Li, Telotte; **Assistant Professors:** Ali, Chung, Holmes, Mendoza-Cortes, Mohammadigoushki; **Senior Research Associate:** Finney; **Research Faculty I:** Rosenberg; **Teaching Faculty I:** Hunter; **Teaching Faculty II:** Arce; **Professor Emeritus:** Collier; **Affiliate Faculty:** Hsu, Sachdeva, Shanbhag, Zheng

Program Overview

The vision of the Department of Chemical and Biomedical Engineering as an educational unit is to be recognized as a place of excellence in fundamental and applied chemical and biomedical engineering education and life-long learning, and to maintain a national research leadership in modern areas of engineering challenge. To attain this vision, the department realizes that it has to continually satisfy its major stakeholders: students, industrial employers, alumni, departmental faculty, the college, the universities, the community, the Accreditation Board for Engineering and Technology, Inc. (ABET), and other professional societies.

Chemical engineering encompasses the development, application, and operation of processes in which chemical, biological, and/or physical changes of material are involved. The work of the chemical engineer is to analyze, develop, design, control, construct, and/or supervise chemical processes in research and development, pilot-scale operations, and industrial protection. Chemical engineers are employed in the manufacture of inorganic chemicals (e.g., acids, alkalis, pigments, fertilizers), organic chemicals (e.g., petrochemicals, polymers, fuels, propellants, pharmaceuticals, specialty chemicals), biological products (e.g., enzymes, vaccines, biochemicals, biofuels), and materials (e.g., ceramics, polymeric materials, paper, biomaterials). The graduate in chemical engineering is particularly versatile. Industrial work may involve production, operation, research, and development. Graduate education in medicine, dentistry, and law, as well as chemical engineering, biomedical engineering, and other engineering and scientific disciplines are viable alternatives for the more accomplished graduate.

The Department of Chemical and Biomedical Engineering has made a long-term commitment to emphasize a biological component in its curriculum. The increasing importance of biological and medical subjects within the field of engineering cannot be underestimated. Many of the remarkable breakthroughs in medical science can be directly attributed to advances in chemicals, materials, and devices spearheaded by biochemical and biomedical engineers. Currently, biomedical engineering represents the fastest growing engineering discipline in the U.S. and it is likely to continue as such. The biomedical/biotechnology industries are also the fastest growing of all current industries that employ engineers. Training in biological and biomedical engineering provides an excellent background for graduate and/or medical school, especially in light of the increasing technological complexity of medical education.

Biomedical engineering concerns the application of chemical engineering principles and practices to large scale living organisms, most specifically human beings. As one of the newest sub-disciplines of chemical engineering, the field is rapidly evolving, involving chemical engineers, biochemists, physicians, and other health care professionals. Biomedical research and development is carried out at universities, teaching hospitals, and private companies, and it focuses on conceiving new materials and products designed to improve or restore bodily form or function. Biomedical engineers are employed in diverse areas such as artificial limb and organ development, genetic engineering research, development of drug delivery systems, and cellular and tissue engineering. Many biomedical engineering professionals are engaged in medical research to model living organisms (pharmacokinetic models), and to make biomedical devices (e.g., drug delivery capsules, synthetic materials, and prosthetic devices). Because of increasing interest in biomedical sciences and biotechnology, the degree in biomedical engineering also provides an avenue for students interested in pursuing a career in medicine, biotechnological patent law, or biomedical product sales and services.

The Department currently offers two Bachelor of Science (BS) degrees. The first is in Chemical Engineering with two major options (Chemical Engineering and Chemical-Materials Engineering). The second is the Bachelor of Science (BS) degree in Biomedical Engineering with three major options (Cell and Bioprocess, Biomaterials and Biopolymers, and Imaging and Signal Processing). The BS degree takes between four and five years to complete. The undergraduate curriculum emphasizes the application of experimental and computer analysis to classical chemical and biomedical engineering principles. This includes laboratory instruction in modern, state-of-the-art facilities

in the transport phenomena, unit operations, process control, anatomy and physiology, biodynamics, biomaterials, and bioinstrumentation laboratories. Students are instructed in and utilize state-of-the-art computational programs such as MATLAB, Simulink, Aspen, and COMSOL Multiphysics.

To meet newly developed interests in chemical and biomedical engineering and related fields, elective courses are available in bioengineering, polymer engineering, materials engineering, electrochemical engineering, and environmental engineering. The major options build upon the core chemical and biomedical engineering principles developed for the original BS degree in Chemical Engineering and then expanded to the new BS degree in Biomedical Engineering. Consult an advisor for specific requirements for the three major options.

Please contact the Department of Chemical and Biomedical Engineering at *Suite A131, 2525 Pottsdamer Street, Tallahassee, FL 32310-6046*; phone: *(850) 410-6149* or *(850) 410-6151*; fax: (*850) 410-6150*; e-mail: *chemical@eng.famu.fsu.edu*; or Web site: *http://www.eng.famu.fsu.edu/cbe*.

Program Objectives and Outcomes

The Department of Chemical and Biomedical Engineering is nationally accredited by the Accreditation Board for Engineering and Technology, Inc. (ABET). As part of the accreditation process, the department has developed program educational objectives and program outcomes to reflect the educational goals of the department. These objectives and outcomes are continually assessed and modified to meet the changing demands of the departmental stakeholders.

Program Educational Objectives

The Department of Chemical and Biomedical Engineering shall prepare its students for academic and professional work through the creation and dissemination of knowledge related to the field, as well as through the advancement of those practices, methods, and technologies that form the basis of the chemical engineering profession. Accordingly, the Department of Chemical and Biomedical Engineering has established the following educational objectives that our graduates are expected to attain within five years of graduation from our undergraduate program:

1. Successfully pursue careers in a wide range of industrial, professional, and academic settings through application of their rigorous foundation in chemical engineering principles and strong communication skills.
2. Successfully adapt and innovate to meet future technological challenges and evolving regulatory issues, while addressing the ethical and societal implications of their work at both the local and global level.
3. Successfully function on interdisciplinary teams and assume participatory and leadership roles in professional societies, and interact with educational, community, state, and federal institutions.

Student Outcomes

These objectives are further expanded and detailed through seven (7) student outcomes.

Student Outcome #1 – Scientific Knowledge and Problem Solving.

Outcome Definition: Students graduating from the program will have an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.

Student Outcome #2 – Design Skills

Outcome Definition: Students graduating from the program will have the ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.

Student Outcome #3 – Effective Communication

Outcome Definition: Students graduating from the program will have the ability to communicate effectively with a range of audiences.

Student Outcome #4 – Professional and Ethical Responsibility

Outcome Definition: Students graduating from the program will have the ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

Student Outcome #5 – Teamwork

Outcome Definition: Students graduating from the program will have the ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.

Student Outcome #6 – Experimentation

Outcome Definition: Students graduating from the program will be able to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.

Student Outcome #7 – Lifelong Learning

Outcome Definition: Students graduating from the program will have the ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

ABET Engineering Criteria 2000 encourages each engineering department to pursue its own unique BS degree program objectives in accordance with its own environment and stakeholder demands. ABET EC 2000 also stipulates that the outcomes of program implementation must be assessed and evaluated regularly, and the results of such assessments and evaluations must be utilized as needed in future program objectives and implementation.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in chemical and biomedical engineering satisfy this requirement by earning a grade of "C–" or higher in ECH 3854.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Chemical Engineering

1. MAC X311 or MAC X281
2. MAC X312 or MAC X282
3. MAC X313 or MAC X283
4. MAP X302* or MAP X305*
5. CHM X045/X045L or CHM X045C, or CHS X440/X440L
6. CHM X046/X046L or CHM X046C
7. PHY X048/X048L or PHY X048C, or PHY X043 and PHY X048L
8. PHY X049/X049L or PHY X049C, or PHY X044 and PHY X049L

Note: The Department also requires EGN 1004L for acceptance into one of the Department's majors from the Pre-Engineering major. Courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Undergraduate Laboratory and Computational Facilities

Undergraduate chemical engineering teaching laboratories in measurements and transport phenomena, unit operations, and process control are designed to augment classroom instruction. Our undergraduate chemical engineering laboratory experiments feature a twenty stage distillation column for the study of organic chemical separations, several reactor vessels for the design and analysis of batch and continuous reactor configurations, and a liquid/liquid continuous extraction process system, among others. All experiments include computer data control and data acquisition systems in order to provide a "real world" experience for our students. The department is developing new biomedical engineering laboratories in the areas of bioinstrumentation, cell and tissue engineering, anatomy and physiology, and biodynamics and control.

The department has extensive computational and laboratory facilities in a number of areas. In addition to the University computing center facilities accessible by remote terminals, students have access to College of Engineering

computer labs that have workstations connected to college-wide servers. Within the Department of Chemical and Biomedical Engineering, undergraduate students working on research projects utilize laboratory computer terminals connected to the college servers and workstations dedicated to research use. The department requires the use of computers for data acquisition, process control, experimental design and analysis, report writing, and homework problem calculations in the chemical engineering curriculum.

Bachelor of Science DEGREE IN CHEMICAL Engineering

Areas of Study (Majors)

In the Bachelor of Science degree (BS) in Chemical Engineering, students may choose between two different areas of study that reflect new directions in the broader field of chemical engineering. These major options include chemical engineering and chemical-materials engineering.

- **Chemical Engineering.** The most common major, it prepares students for employment or further study in traditional areas of chemical engineering (described above).
- **Chemical-Materials Engineering.** Chemical engineers have extensively developed and studied the molecular structures and dynamics of materials—including solids, liquids, and gases—in order to develop macroscopic descriptions of the behavior of such materials. In turn, these macroscopic descriptions have allowed the construction and analysis of unit processes that facilitate desired chemical and physical changes. This constant interplay between molecular scale understanding and macroscopic descriptions is unique and central to the field of chemical engineering.

Requirements for a BS Degree in Chemical Engineering

A program of study encompassing at least 128 semester hours is required for the Bachelor of Science (BS) degree in chemical engineering A candidate for the bachelor's degree is required to earn a "C" or higher in all engineering courses, and must achieve a 2.0 grade point average (GPA) in all of the chemical engineering major courses. In addition, students must achieve a grade of "C–" or higher in all courses transferred into the Department of Chemical and Biomedical Engineering. Students should contact the department for the most up-to-date information concerning the chemical engineering curriculum requirements.

There are two majors within the chemical engineering bachelor's degree program. These include Chemical Engineering and Chemical-Materials Engineering. Most of the curriculum is common to both majors, and includes topics in liberal studies, mathematics, basic science, computer science, advanced chemistry, general engineering science, and chemical engineering science and design. History/social science/humanities electives are to be selected to satisfy the Florida State University liberal studies requirement. Students in all three majors should successfully complete the following courses in addition to the liberal studies, other University, and College of Engineering requirements:

Math and Science Prerequisites

MAC 2311 Calculus with Analytic Geometry I (4)
MAC 2312 Calculus with Analytic Geometry II (4)
MAC 2313 Calculus with Analytic Geometry III (5)
ECH 3301 Process Analysis and Design (4)
BSC 2010 Biological Science I (3)
CHM 1045 General Chemistry I (3)
CHM 1045L General Chemistry I Laboratory (1)
CHM 1046 General Chemistry II (3)
CHM 1046L General Chemistry II Laboratory (1)
PHY 2048C General Physics A (combined lecture/lab) (5)
PHY 2049C General Physics B (combined lecture/lab) (5)

Advanced Chemistry

CHM 2210 Organic Chemistry I (3)
CHM 2211 Organic Chemistry II (3)
CHM 4410 Physical Chemistry I (3)
CHM XXXX Advanced Chemistry Elective (3–4)

General Engineering

EGN 1004L First Year Engineering Lab (1)
EGM 3512 Engineering Mechanics (4)
EEL 3003 Introduction to Electrical Engineering (3)

Chemical and Biomedical Engineering Science and Design

ECH 3023 Mass and Energy Balances I (3)
ECH 3024 Mass and Energy Balances II (4)
ECH 3101 Chemical Engineering Thermodynamics (3)
ECH 3266 Transport Phenomena I (3)
ECH 3274L Transport Phenomena Laboratory (3)
ECH 3418 Separations Processes (3)
ECH 3854 Chemical Engineering Computations (4)
ECH 4267 Transport Phenomena II (3)
ECH 4323 Process Control (3)
ECH 4323L Process Control Laboratory (1)
ECH 4404L Unit Operations Laboratory (3)
ECH 4504 Kinetics and Reactor Design (3)
ECH 4604 Chemical Engineering Process Design I (4)
ECH 4615 Chemical Engineering Process Design II (3)
ECH 4XXX Chemical Engineering Electives (6) (for Chemical Engineering and Chemical-Materials Engineering Majors)

Major Requirements

In addition to the courses listed above that are required for all majors, the following courses are specifically required for each of the three majors.

Major in Chemical Engineering

Advanced Chemistry Elective

The advanced chemistry elective is to be selected from the following courses offered in the Department of Chemistry and Biochemistry, or selected other courses in either chemical engineering or biological sciences specifically approved by the Chair of the Department of Chemical and Biomedical Engineering.

Select from one of the following choices:

CHM 3120 Analytical Chemistry I (3)
CHM 4080 Environmental Chemistry I (3)
CHM 4081 Environmental Chemistry II (3)
CHM 4411 Physical Chemistry II (3)
CHM 2211L Organic Chemistry II Laboratory (3)
BCH 4053 General Biochemistry I (3)
ECH 4XXX Approved Advanced Chemistry Course taught in the CBE Department

Chemical Engineering Electives

The two chemical engineering electives (three semester hours each) are to be selected from the 4000-level elective courses offered in the Department of Chemical and Biomedical Engineering.

Note: A six credit-hour sequence in the Department's Undergraduate Research Program, consisting of the course designations ECH 4904 (ECH URP), or ECH 4906 (ECH Honors in the Major), will substitute for this requirement.

Major in Chemical-Materials Engineering

Advanced Chemistry Elective

CHM 3120 Analytical Chemistry I (3)
ECH 4XXX Approved Advanced Chemistry Course taught in the CBE Department

Chemical Engineering Electives

Select from two of the following choices:

ECH 4823 Introduction to Polymer Science and Engineering (3)
ECH 4824 Chemical Engineering Materials (3)
ECH 4825 Polymer Process Engineering (3)
ECH 4937 Special Topics in Chemical Engineering [Electrochemical Engineering] (3) or other approved elective (3)

Note: A six credit hour sequence in the Department's Undergraduate Research Program, consisting of the course designations ECH 4904 (ECH - URP), ECH 4906 (ECH - Honors in the Major), will substitute for the Chemical Engineering Electives requirement.

Bachelor of Science DEGREE IN BioMedical Engineering

Areas of Study (Majors)

In the Bachelor of Science degree (BS) in Biomedical Engineering, students may choose from among three diverse areas of study that reflect new directions in the broader field of biomedical engineering. These major options include cell and bioprocess, biomaterials and biopolymers, and imaging and signal processing.

- **Cell and Bioprocess.** Biomedical engineers in this field are employed in diverse areas such as artificial limb and organ development, genetic engineering research, development of drug delivery systems, and cellular and tissue engineering.
- **Biomaterials and Biopolymers.** Engineering professionals in this field are engaged in medical research to model living organisms (pharmacokinetic models), and to make biomedical devices (e.g., drug delivery capsules, synthetic materials, and prosthetic devices).
- **Imaging and Signal Processing.** The field of signal and image processing encompasses the theory and practice of algorithms and hardware that convert signals produced by artificial or natural means into a form useful for a specific purpose. The signals might be speech, audio, images, video, sensor data, telemetry, electrocardiograms, or seismic data, among others. This major option is tailored to students interested in pursuing a career in medicine, biotechnological patent law, or biomedical product sales and services.

Requirements for a BS Degree in biomedical Engineering

A program of study encompassing at least 128 semester hours is required for the Bachelor of Science (BS) degree in biomedical engineering. A candidate for the bachelor's degree is required to earn a "C" or higher in all engineering courses and must achieve a 2.0 grade point average (GPA) in all of the biomedical engineering major courses. In addition, students must achieve a grade of "C–" or higher in all courses transferred into the Department of Chemical and Biomedical Engineering. Students should contact the department for the most up-to-date information concerning the chemical engineering curriculum requirements.

There are three majors within the biomedical engineering bachelor's degree program. These include Cell and Bioprocess, Biomaterials and Biopolymers, and Imaging and Signal Processing. Most of the curriculum is common to all three majors, and includes topics in liberal studies, mathematics, basic science, computer science, advanced chemistry, general engineering science, and biomedical engineering science and design. History/social science/humanities electives are to be selected to satisfy the Florida State University liberal studies requirement. Students in all three majors should successfully complete the following courses in addition to the liberal studies, other University, and College of Engineering requirements:

Math and Science Prerequisites

MAC 2311 Calculus with Analytic Geometry I (4)
MAC 2312 Calculus with Analytic Geometry II (4)
MAC 2313 Calculus with Analytic Geometry III (5)
ECH 3301 Process Analysis and Design (4)
BSC 2010 Biological Science I (3)
CHM 1045 General Chemistry I (3)
CHM 1045L General Chemistry I Laboratory (1)
CHM 1046 General Chemistry II (3)
CHM 1046L General Chemistry II Laboratory (1)
PHY 2048C General Physics A (combined lecture/lab) (5)
PHY 2049C General Physics B (combined lecture/lab) (5)

Advanced Chemistry

CHM 2210 Organic Chemistry I (3)
CHM 2211 Organic Chemistry II (3)
OR
CHM 3217 One Semester Organic Chemistry (3)
BCH 3023 Survey of Biochemistry (3)

General Engineering

EGN 1004L First Year Engineering Lab (1)

Chemical and Biomedical Engineering Science and Design

ECH 3023 Mass and Energy Balances I (3)
ECH 3024 Mass and Energy Balances II (4)
BME 3009 Introduction to Biomedical Engineering (3)
BME 3100 Biomaterials (3)
BME 3101 Biothermodynamics (3)
BME 3622 Biotransport Phenomena I (3)
BME 3702 Biocomputations (4)
BME 4211 Biomechanics (3)
BME 4323 Biodynamics and Control (3)
BME 4323L Biodynamics and Control Laboratory (1)
BME 4403C Quantitative Anatomy and Systems Physiology I (3)
BME 4404C Quantitative Anatomy and Systems Physiology II (3)
BME 4503 Bioinstrumentation (3)
BME 4503L Bioinstrumentation Laboratory (1)
BME 4801 Biomedical Engineering Process Design I (3)
BME 4802 Biomedical Engineering Process Design II (3)
BME 4XXX Biomedical Engineering Electives (9)

Major Requirements

In addition to the courses listed above that are required for all majors, the following courses are specifically required for each of the three majors.

Major in Cell and Bioprocess

Biomedical Engineering Science and Design

BME 4332 Cell and Tissue Engineering (3)
BME 4332L Cell and Tissue Engineering Laboratory (1)

Chemical Engineering Science and Design

ECH 4504 Kinetics and Reactor Design (3)

Biomedical Engineering Electives

The three biomedical engineering electives (three semester hours each) are to be selected from the 4000-level elective courses offered in the Department of Chemical and Biomedical Engineering.

Note: A six credit hour sequence in the Department's Undergraduate Research Program, consisting of the course designations BME 4904 (BME - URP), or BME 4906 (BME - Honors in the Major), will substitute for the Biomedical Engineering Elective requirement.

Major in Biomaterials and Biopolymers

Biomedical Engineering Science and Design

BME 4332 Cell and Tissue Engineering (3)
BME 4332L Cell and Tissue Engineering Laboratory (1)

Chemical Engineering Science and Design

ECH 4823 Polymer Science and Engineering (3)

Biomedical Engineering Electives

The three biomedical engineering electives (three semester hours each) are to be selected from the 4000-level elective courses offered in the Department of Chemical and Biomedical Engineering.

Note: A six credit hour sequence in the Department's Undergraduate Research Program, consisting of the course designations BME 4904 (BME - URP), or BME 4906 (BME - Honors in the Major), will substitute for the Biomedical Engineering Elective requirement.

Major in imaging and signal processing

Biomedical Engineering Science and Design

BME 4XXX Medical Imaging (3)
BME 4XXX Medical Imaging Laboratory (1)
BME 4XXX Biosignals System Processing

Biomedical Engineering Electives

The three biomedical engineering electives (three semester hours each) are to be selected from the 4000-level elective courses offered in the Department of Chemical and Biomedical Engineering.

Note: A six credit hour sequence in the Department's Undergraduate Research Program, consisting of the course designations BME 4904 (BME - URP), or BME 4906 (BME - Honors in the Major), will substitute for the Biomedical Engineering Elective requirement.

Pre-Med Electives (recommended, consult the College of Medicine for details)

BCH 4053 General I (3)
BSC 2010L Biological Science I Lab (1)
BSC 2011 Biological Science II (3)
BSC 2011L Biological Science II Lab (1)
CHM 2211L Organic Chemistry II Lab (3)
PCB 3743 Vertebrate Physiology (3)

Academic Requirements and Policies

In accordance with criteria, specified by the Accreditation Board for Engineering and Technology, Inc., (ABET), all engineering students are subject to a uniform set of academic requirements agreed upon by Florida State University and Florida A&M University. Students should consult the "FAMU-FSU College of Engineering" chapter of this *General Bulletin* and the Department of Chemical and Biomedical Engineering Web site (*https://www.eng.famu.fsu.edu/cbe*) for a list of all academic requirements and policies.

Prerequisite Grade Requirements

In addition to the college course prerequisite requirements, the Department of Chemical and Biomedical Engineering requires students to have obtained a grade of at least "C–" in all courses listed as prerequisites for the department's engineering courses.

Undergraduate Research Program (URP)

The Department of Chemical and Biomedical Engineering offers an Undergraduate Research Program (URP) in chemical and biomedical engineering to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. The program is two-tiered, with those students meeting a more stringent set of academic requirements being admitted to the Honors in the major (Chemical and Biomedical Engineering) program. For requirements and other information, contact the department, and see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

BME—Biomedical Engineering
ECH—Engineering: Chemical
EGS—Engineering: Support

Undergraduate Courses

Biomedical Engineering

BME 3009. Introduction to Biomedical Engineering (3). Prerequisites: BSC 2010, MAC 2312, and PHY 2048C, all with a grade of "C" or higher. Corequisites: ECH 3024, ECH 3301, MAC 2313, and PHY 2049C. This course presents an introduction to the field of biomedical engineering, building on previous basic coursework in biological science, physics, and calculus. Topics in cell physiology and modeling, bioinstrumentation, biomaterials, tissue engineering, and bioimaging are covered. The course provides sophomore-level biomedical engineering students with both fundamentals and applications in contemporary biomedical science and engineering.

BME 3100 Biomaterials (3). Prerequisites: BME 3361, BME 3622, BME 3702, and BME 4403C. Corequisites: BME 4211, BME 4503, BME 4503L, and BME 4404C. This course introduces fundamental concepts of biomaterials science and engineering. The course covers the basic properties of major classes of biomaterials including natural, polymeric, metallic, ceramic, carbon-based, composite, and nano-biomaterials. It also presents critical interactions between the biomaterials and biological systems, such as biocompatibility of biomaterials and foreign body reaction of the host to biomaterials. Since characterization tools are indispensable for biomaterials science and engineering, major techniques for characterizing biomaterials are taught, with an emphasis on introducing their basic principles.

BME 3361. Biotransport Phenomena (3). Prerequisites: ECH 3024, ECH 3301, PHY 2049C, and BME 3009. Corequisites: BME 3622, BME 3702, and BME 4403C. This course presents the fundamental concepts of transport phenomena in biological systems and applies these concepts to the solutions of problems relevant to biomedical engineering.

BME 3622. Biothermodynamics (3). Prerequisites: "C" grade or better in ECH 3024, ECH 3301, PHY 2049C, and BME 3009. Corequisites: BME 3361, BME 3702, and BME 4403C. This course covers the fundamental principles of thermodynamics and their application to biochemical, cellular, and physiological function. In addition, the principles of chemical kinetics of biochemical reactions and metabolic reaction networks are addressed.

BME 3702. Biocomputations (4). Prerequisites: ECH 3024, ECH 3301, Phy 2049C, BE 3009, and CHM 2210. Corequisites: BME 3622, BME 3361, and BME 4403C. This course covers structured programming techniques; numerical techniques useful in the solution of biomedical engineering problems: root finding techniques, direct and iterative approaches to solve linear systems, linear and nonlinear regression, interpolation, numerical differentiation and integration, and statistical analysis of data; numerical solutions of ordinary differential equations; and applications from physiological, cell, and molecular systems.

BME 4007. Biomedical Engineering (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4404L, ECH 4504, and ECH 4604. This course introduces the major principles of the life sciences (microbiology, cell biology, and genetics) that are important for biomedical engineering applications. The application of the chemical engineering principles of kinetics, mass transport, bioreactor design, and separation processes to solve the important problems in the biomedical engineering are emphasized.

BME 4082. Biomedical Engineering Ethics (3). Prerequisites: BME 4404C, ECH 3274L, ECH 3418, and ECH 4267. This course is an introduction to the key theories, concepts, principles, and methodology relevant to the development of biomedical engineering professional ethics. The student is facilitated in his/her development of a code of professional ethics through written work, class discussion and case analysis.

BME 4211. Biomechanics (3). Prerequisites: "C" grade or better in the following courses: BME 3361, BME 3622, and BME 3702. Corequisites: BME 3100, BME 4503, BME 4503L, and BME 4404C. The course introduces the mechanical behavior of biological tissues and living systems, the mechanical properties of biological materials and its influence on the structure and function of living systems. Methods for the analysis of both rigid body and deformational mechanics are introduced as they apply to biological tissues including bone, muscle, and connective tissues. The course also introduces the methods of continuum mechanics to biomechanical phenomena at cellular to tissue or organ level.

BME 4503L. Bioinstrumentation Laboratory (1). Prerequisites: BME 3702, BME 4403C. This laboratory course provides hands-on use and construction of components and instrumentation used in clinical and biomedical research. The laboratory focuses on electrical components, transducers/sensors, and control systems.

BME 4403C. Quantitative Anatomy and Systems Physiology I (3). Prerequisites: BME 3009, ECH 3024, and ECH 3301, all with a grade of "C" or higher; and PHY 2049C. Corequisites: ECH 3101, ECH 3266, and ECH 3854. This course introduces engineering students to engineering principles of the anatomy and physiology of the human body. The lecture portion of the course focuses on relating fundamental biomedical engineering concepts to the human physiological system. The laboratory portion of the course involves a practical, in-depth study of the physical and chemical interrelationships in the form and function of all human anatomical and physiological subsystems.

BME 4404C. Quantitative Anatomy and Systems Physiology II (3). Prerequisites: BME 4403C, ECH 3101, ECH 3266, and ECH 3854. Corequisites: ECH 3274L, ECH 3418, and ECH 4267. This course focuses on introducing fundamental concepts of anatomy and physiology of the human nervous, digestive, and urinary systems, quantitative aspects of systems, and scientific principles underlying the systems, diseases and disorders of systems, and biomedical engineering techniques related to the systems.

BME 4503. Bioinstrumentation (3). Prerequisites: BME 3702, BME 4403C. Corequisite: BME 4404C. This course is an overview of instrumentation used in clinical and biomedical research. The course reviews circuit theory and its application to systems measuring for biopotentials, stress and strain, pressure, temperature, and optical properties.

BME 4801. Biomedical Engineering Process Design I (3). Prerequisites: BCH 4053 and BME 4404C. Corequisite: Senior standing. This course is the first of a two-semester sequence on the design of biomedical engineering processes and products. The first semester consists of introducing students to the principles of engineering economics and cost estimation techniques relating to principles of biomedical engineering design. Included is an introduction to computer-aided design calculations.

BME 4802. Biomedical Engineering Process Design II (3). Prerequisites: BCH 4053, BME 4403C, and BME 4801. Corequisite: Senior standing. This course is the second of a two-semester sequence on the design of biomedical engineering processes and products. The second term focuses on the actual design of a biomedical engineering process or product using computer-aided design calculations. This is the capstone senior design course in biomedical engineering. An individual design project is completed by each student.

BME 4904r. Undergraduate Research Project (1–3). Prerequisite: BME 4403C, CHM 4410, ECH 3101, ECH 3266, ECH 3854, a 3.0 GPA, and instructor permission. Corequisites: ECH 3274L, ECH 3418, and ECH 4267. This course involves the completion of an Honors Undergraduate Research Program (URP) for six hours with a minimum grade of "C". This program requires independent student research on a topic relevant to biomedical engineering and may be used to satisfy the Chemical Engineering Elective requirement. May be repeated to a maximum of six semester hours.

BME 4905r. Directed Individual Study (3). Prerequisite: Department chair permission. This course offers a supervised program of study approved by the department chair. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

BME 4906r. Honors URP in Biomedical Engineering (1–3). Prerequisite: BME 4403C, CHM 4410, ECH 3101, ECH 3266, ECH 3854, a 3.2 GPA, and instructor permission. Corequisites: ECH 3274L, ECH 3418, and ECH 4267. This course involves the completion of an Honors Undergraduate Research Program (URP) for six hours with a minimum grade of "C". This program requires independent student research on a topic relevant to biomedical engineering and may be used to satisfy the Chemical Engineering Elective requirement. May be repeated to a maximum of six semester hours. May be repeated within the same semester.

BME 4937r. Special Topics in Biomedical Engineering (3). Prerequisite: BME 4404C, ECH 3274L, ECH 3418, and ECH 4267. Corequisite: ECH 4504. This course emphasizes recent developments in the field of biomedical engineering. Selected readings are assigned by the instructor. Structure of the course varies by instructor and topic, but generally involve lectures and a final project on a topic in biomedical engineering. May be repeated to a maximum of twelve semester hours.

Chemical Engineering

ECH 2050. Engineering Communications (2). This course includes techniques for effective oral communication in settings most frequently encountered by the practicing engineer. Speaking skills are applied in informal presentations, formal presentations, and interviews.

ECH 3023. Mass and Energy Balances I (3). Prerequisites: CHM 1046 and MAC 2312. Corequisites: CHM 2210, MAC 2313, and PHY 2048C. This course covers mass and energy balances related to chemical process systems and measurements, as well as to the development of problem-solving methodologies in mass and energy balances.

ECH 3024. Mass and Energy Balances II (4). Prerequisites: CHM 2210, MAC 2313, and PHY 2048C; as well as ECH 3023 with a grade of "C" or higher. Corequisites: BSC 2010, ECH 3301, and PHY 2049C. This course introduces the general concepts of chemical engineering. In this course, the applications of mass and energy balances are extended to include reactive systems, and systems undergoing phase changes as well as transient processes. Computational tools such as Excel and MATLAB are used to demonstrate the use of a structured programming language for material and energy balances.

ECH 3101. Chemical Engineering Thermodynamics (3). Prerequisites: ECH 3023, ECH 3024, and ECH 3301, all with a grade of "C" or higher; and PHY 2049C. Corequisites: ECH 3266 and ECH 3854. In this course, students learn the basics of classical and solution thermodynamics. The course forms the link between the mass and energy balance courses, and separations.

ECH 3266. Transport Phenomena I (3). Prerequisites: ECH 3024 and ECH 3301, both with a grade of "C" or higher; and PHY 2049C. Corequisites: ECH 3101 and ECH 3854. This course examines integral balance equations for conservation of momentum, energy, and mass. Topics include the following: analysis of chemical processes involving fluid flow and heat and mass transfer, estimation of friction factors, and heat and mass transfer coefficients, pump selection and sizing, piping network analysis, and design of heat exchangers.

ECH 3274L. Transport Phenomena Laboratory (3). Prerequisites: ECH 3101, ECH 3266, and ECH 3854. Corequisites: ECH 3418 and ECH 4267. This course enables students to design and conduct experiments on fluid mechanics and heat transfer; analyze and interpret data; apply spreadsheets, statistical methods, and process models; as well as gain proficiency in operating basic chemical-engineering equipment and instruments. Emphasis is placed on safety, professionalism, teamwork, and oral/written communication.

ECH 3301. Process Analysis and Design (4). Prerequisite: MAC 2312. Corequisites: ECH 3023 and MAC 2313. This course examines the development and analysis of process models for systems that arise in chemical engineering applications.

ECH 3330. Statistical Approach to Process Improvement (3). Prerequisite: Completion of the academic requirements through the sophomore year in chemical engineering or in other engineering disciplines. This course covers ways to apply statistical process control and methods of planned experimentation to the design of products and processes, as well as to continuous quality improvement. Topics covered include control charts; process-capability studies; loss functions; acceptance sampling; design of experiments for screening studies and response-surface modeling; and analysis of variance. The course also introduces case studies in chemical processes, food engineering, and health care.

ECH 3418. Separations Processes (3). Prerequisites: ECH 3101, ECH 3266, and ECH 3854. Corequisites: ECH 3274L and ECH 4267. This course examines the principles of equilibrium and transport-controlled separations. Topics include analysis and design of stagewise and continuous separation processes, including distillation, absorption, extraction, filtration, and membrane separations.

ECH 3844. Chemical Engineering Statistics (3). This course introduces basic statistical analysis with an emphasis on applications relevant to Chemical Engineering. Applications covered include design of experiments and analysis of experimental data and modern software tools are utilized.

ECH 3854. Chemical Engineering Computations (4). Prerequisites: ECH 3024, ECH 3301, and PHY 2049C, all with a grade of "C" or higher. Corequisites: ECH 3101 and ECH 3266. This course covers topics such as structured programming techniques; numerical techniques useful in the solution of chemical engineering processes: root-finding techniques, direct and iterative approaches to solve linear systems, linear and nonlinear regression, interpolation, numerical differentiation and integration, statistical analysis of data; solutions of ordinary differential equations.

ECH 4267. Transport Phenomena II (3). Prerequisites: ECH 3101, ECH 3266, and ECH 3854. Corequisites: ECH 3274L and ECH 3418. This course focuses on the critical analytical and mathematical skills for analyzing fundamental concepts in transport phenomena (including fluid mechanics, heat transfer, and mass transfer) and the application of these concepts to the solution of problems relevant to chemical and biomedical engineering. The focus is on the microscopic description of momentum, energy, and mass transfer to obtain balance equations and to utilize information obtained from solutions of the balance equations to calculate engineering quantities of interest drag force, rate of heat and mass transfer in a wide variety of problems.

ECH 4323. Process Control (3). Prerequisites: ECH 4404L, ECH 4504, and ECH 4604. Corequisite: ECH 4615. This course focuses on the design and implementation of model-based control systems for chemical and biochemical systems. Topics include formulation of dynamic models, time and Laplace domain analysis of open-loop and closed-loop systems, and design of single variable and multivariable controllers. MATLAB and SIMULINK are used for dynamic process simulation and control system development. The lab is comprised of experiments designed to illustrate and apply control theory, measurement techniques, calibration, tuning of controls, characterization of sensors, and control circuits.

ECH 4323L. Process Control Lab (1). Prerequisites: ECH 4404L, ECH 4504, and ECH 4604. Corequisite: ECH 4615. This lab is comprised of experiments designed to illustrate and apply control theory, measurement techniques, calibration, tuning of controls, characterization of sensors, and control circuits.

ECH 4404L. Unit Operations Lab (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4504 and ECH 4604. This course includes activities such as designing and conducting experiments in reaction kinetics and chemical separations, analyzing and interpreting data, applying spreadsheets, statistical methods, and process models. Students gain proficiency in operating basic chemical engineering equipment and instruments. Emphasis on safety, professionalism, teamwork, and oral and written communication.

ECH 4504. Kinetics and Reactor Design (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. This course covers the following topics: homogeneous and heterogeneous reaction kinetics; analysis of batch, mixed, plug, and recycle reactors; analysis of multiple reactions and multiple reactors; reactor temperature control; and catalytic reactor design.

ECH 4604. Chemical Engineering Process Design I (4). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4404L and ECH 4504. This course is the first in a two-semester sequence on the analysis, synthesis, and design of chemical processes, preparing students for engineering practice. Students integrate knowledge from prior courses with process economics, computer-aided design, engineering standards, and realistic constraints to solve open-ended process problems.

ECH 4615. Chemical Engineering Process Design II (3). Prerequisites: ECH 4404L, ECH 4504, and ECH 4604. Corequisites: ECH 4323 and ECH 4323L. This course is the second in a two-semester sequence on the analysis, synthesis, and design of chemical processes, and prepares students for engineering practice. Students integrate knowledge from prior courses with process economics, computer-aided design, engineering standards, and realistic constraints to the design of chemical-process facilities.

ECH 4743. Bioengineering (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4404L, ECH 4504, and ECH 4604. This course introduces chemical engineering students to the major principles of life sciences that are important for biotechnological applications, and extends and applies the students' knowledge of the chemical engineering principles of kinetics, mass transfer, separation, purification, and characterization to important problems in bioprocess engineering.

ECH 4781. Chemical Engineering—Environmental (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4404L, ECH 4504, and ECH 4604. This course is an introduction to the history and development of environmental regulation and its scientific basis. Application of fundamental chemical engineering techniques involving mass transfer theory and reaction kinetics to problems associated with the fate of contaminants in the environment.

ECH 4823. Polymer Science and Engineering (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4404L, ECH 4504, and ECH 4604. This course offers an introduction to different types of polymers and their physical properties. Topics include major synthetic paths and reaction kinetics, properties of macromolecules in solution, methods of molecular weight determination, and the role of phase transitions in amorphous and crystalline polymers.

ECH 4824. Chemical Engineering Materials (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisites: ECH 4404L, ECH 4504, and ECH 4604. This course provides an introduction to engineering materials, with emphasis on understanding the relation between structure, processing, and properties. In particular, the role of the atomic structure and arrangement, as well as the microstructure, in determining the physical properties of these materials is examined. In addition, polymers and modern processing techniques for improving material performance are studied. Finally, the resistance of materials to environmental factors, and factors in selection of materials for engineering applications are discussed.

ECH 4904r. Undergraduate Research Project in Chemical Engineering (1–3). Prerequisites: CHM 4410, ECH 3101, ECH 3266, ECH 3854, a 3.0 GPA, and instructor permission. Corequisites: ECH 3274L, ECH 3418, and ECH 4267. This course involves the completion of an Honors Undergraduate Research Program (URP) for six hours with a minimum grade of "C". This program requires independent student research on a topic relevant to biomedical engineering and may be used to satisfy the Chemical Engineering Elective requirement. May be repeated to a maximum of six semester hours.

ECH 4905r. Directed Individual Study (1–3). Prerequisite: Permission of department chair. This is a supervised program of study. May be repeated to a maximum of twelve semester hours.

ECH 4906r. Honors—URP in Chemical Engineering (1–3). Prerequisites: BME 4403C, CHM 4410, ECH 3101, ECH 3266, ECH 3854, a 3.2 GPA, and instructor permission. Corequisites: ECH 3274L, ECH 3418, and ECH 4267. This course involves the completion of an Honors Undergraduate Research Program (URP) for six hours with a minimum grade of "C". This program requires independent student research on a topic relevant to biomedical engineering and may be used to satisfy the Chemical Engineering Elective requirement. May be repeated to a maximum of six semester hours.

ECH 4937r. Special Topics in Chemical Engineering (3). Prerequisites: ECH 3274L, ECH 3418, and ECH 4267. Corequisite: ECH 4504. This course covers selected topics in chemical engineering with emphasis on contemporary developments in the field. May be repeated within the same term to a maximum of twelve semester hours.

General Engineering

EGS 3032. Engineering Ethics (3). Prerequisite: EGN 1004L. This course introduces the key theories, concepts, principles, and methodology relevant to the development of professional engineering ethics. Students are guided in their development of a code of professional ethics through written work, class discussion, and case analysis.

Graduate Courses

BME 5086. Biomedical Engineering Ethics (3).
BME 5905r. Directed Individual Study (1–3).
BME 5910. Supervised Research (3). (S/U grade only.)
BME 5935r. Biomedical Engineering Seminar (0). (S/U grade only.)
BME 5937r. Special Topics in Biomedical Engineering (3).
BME 5971r. Master's Thesis Research (1-12). (S/U grade only.)
BME 6530. NMR and MRI Methods in Biology and Medicine (3).
BME 6980r. Dissertation (1-9). (S/U grade only.)
ECH 5052. Research Methods in Chemical Engineering (3).
ECH 5126. Advanced Chemical Engineering Thermodynamics I (3).
ECH 5261. Advanced Transport Phenomena I (3).
ECH 5262. Advanced Transport Phenomena II (3).
ECH 5526. Advanced Reactor Design (3).
ECH 5828. Introduction to Polymer Science and Engineering (3).
ECH 5840. Advanced Chemical Engineering Mathematics I (3).
ECH 5841. Advanced Chemical Engineering Mathematics II (3).
ECH 5852. Advanced Chemical Engineering Computations (3).
ECH 5905r. Directed Individual Study (1–3).
ECH 5910. Supervised Research (3). (S/U grade only.)
ECH 5934r. Special Topics in Chemical Engineering (3).
ECH 5935r. Chemical Engineering Seminar (0). (S/U grade only.)
ECH 5971r. Master's Thesis Research (1-12). (S/U grade only.)
ECH 6272. Molecular Transport Phenomena (3).
ECH 6980r. Dissertation (1-24). (S/U grade only.)

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

CHEMICAL PHYSICS:
see *Graduate Bulletin*

Undergraduate Department of CHEMISTRY AND BIOCHEMISTRY

College of Arts and Sciences

Website: *http://www.chem.fsu.edu/*
Chair: Geoffrey Strouse; **Associate Chairs:** Ed Hilinski, Susan Latturner, Wei Yang; **Professors:** Alabugin, Albrecht-Schmitt, Cross, Dalal, Holton, Latturner, Li, Logan, Marshall, Mattoussi, Saltiel, Sang, Schlenoff, Shatruk, Steinbock, Stiegman, Strouse, Yang; **Teaching Professor:** Kearley; **Associate Professors:** Goldsby, Hilinski, Knappenberger, Ma, Miller, Roper, Stagg, Zhu; **Assistant Professors:** Bleiholder, DePrince, Frederich, Hanson, Hu, Kennemur, Lazenby, Nienhaus, Silvers, Smith; **Teaching Assistant Professor:** B. DePrince; **Honors Lecturer:** Kearley; **Coordinator of General Chemistry Laboratories:** Dillon; **Coordinator of Organic Laboratories:** Profeta; **Professors Emeriti:** Clark, Cooper, DeTar, Dorsey, Dougherty, Fulton, Johnsen, Kroto, Light, Linder, Mellon, Safron, Schwartz, Sheline, Vickers; **Professors Emerita:** Gilmer, Hoffman

The Department of Chemistry and Biochemistry offers the undergraduate degrees of Bachelor of Science (BS) and Bachelor of Arts (BA) in chemistry, biochemistry, and chemical science. Students seeking BS or BA degrees in chemistry may major in chemistry or environmental chemistry. Students seeking BS or BA degrees in chemical science may major in chemical science or chemical science/FSU-Teach. Please note that a student cannot receive more than one BS or BA degree from the Department of Chemistry and Biochemistry. For example, a student cannot double major in chemistry and biochemistry, due to substantial course overlap between the two majors.

A degree in chemistry or biochemistry is suitable preparation for a variety of career choices, including immediate employment in the chemical, biochemical, environmental, or related industries, or graduate study in chemistry, biochemistry, chemical physics, biophysics, medicine, or other health-related fields. Chemistry majors should take note of the possibility of earning certification by the American Chemical Society in completing their degree requirements. Details of this program are given below. Additional work in mathematics and physics is appropriate for students planning to conduct graduate work in physical chemistry and chemical physics. For those interested in graduate work in biochemistry or biophysics, the baccalaureate degree in biochemistry or the degree in chemistry with electives including BCH 4053, BCH 4054, and selected biology courses is recommended. Students interested in careers in the environmental sciences, ecology and ecosystem management, and environmental toxicology are encouraged to obtain the chemistry degree with a major in environmental chemistry. In every case students should plan their programs in consultation with an academic advisor. Normally students begin taking courses required for the major in the first year, and it is important to consult with a chemistry advisor as early as possible.

The baccalaureate degree in chemical science is offered to meet the needs of those students whose career goals lie outside chemistry but require a strong foundation in science. This program is appropriate, for example, for a student interested in forensic science, medical technology, oceanography, the earth sciences, or health-allied sciences, or for students planning a career in business, public policy, or law with an emphasis in science and/or technology. Compared to the other degree programs in this department, chemical science has a smaller core of required courses to which students are expected to add elective work in other areas after consultation with their advisor. Students interested in teaching chemistry in middle school or high school should consider majoring in chemical science/FSU-Teach; the FSU-Teach Program is described below. The chemical science degree is not appropriate for students interested in graduate study in chemistry or closely related disciplines such as biochemistry, environmental chemistry, or marine chemistry, or for students seeking employment in the chemical industry immediately upon graduation.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in chemistry, biochemistry, and chemical science satisfy this requirement by earning a grade of "C–" or higher in CHM 3120L. Undergraduate majors in chemical science/FSU-Teach satisfy this requirement by earning a grade of "C–" or higher in CHM 3120L or ISC 3523C.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at ei-

ther a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Chemistry

1. CHM X045/X045L, or CHM X040 and CHM X041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. MAC X311 or MAC X281
4. MAC X312 or MAC X282
5. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C
6. PHY X048/X048L and PHY X049/X049L, or PHY X048C and PHY X049C, or PHY X053/X053L and PHY X054/X054L, or PHY X053C and PHY X054C

Note: The PHY X048/X049 sequence is required for the Bachelor of Science degree; it is an option for the Bachelor of Arts degree. The PHY X053/X054 sequence is not accepted for the Bachelor of Science degree.

Biochemistry

1. BSC X010/X010L or BSC X010C or BSC X040/X040L or BSC X040C
2. BSC X011/X011L or BSC X011C or BSC X041/X041L
3. CHM X045/X045L or CHM X045C, or CHM X040 and CHM X041
4. CHM X046/X046L or CHM X046C
5. CHM X210/X210L or PHY X048/X048L or PHY X053/X053L
6. CHM X211/X211L or PHY X049/X049L or PHY X054/X054L
7. MAC X312
   Note: Although MAC X312 is required for the degree, students may be admitted prior to completion of this course
8. MAC X311 or MAC X233 or MAC X253 or MAC X281

Chemical Science

1. CHM X045/1045L, or CHM X040 and CHM X041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. MAC X311 or MAC X281
4. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C

Chemical Science FSU-Teach

1. CHM X045/X045L, or CHM X040 and CHM X041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. MACX311 or MAC X281
4. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C
5. SMT X043
6. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 when admitted to upper division.

Honors in the Major

The Department of Chemistry and Biochemistry offers Honors in the Major to encourage students to undertake independent and original research. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*, or the departmental Web site at *http://www.chem.fsu.edu*.

FSU-Teach Program in Teaching Chemistry

For those also interested in teaching chemistry in middle school or high school, FSU-Teach is an innovative approach to teacher education that involves a collaboration between scientists, mathematicians, and education faculty at Florida State University. In FSU-Teach, students will acquire knowledge in science or mathematics and the skill and experience needed to be an effective science or math teacher. The program will pay for tuition for the first two courses, and work study positions with scientists, mathematicians, and local schools are available. For more information, see the FSU-Teach Web site at *http://FSU-Teach.fsu.edu*.

Requirements

Please review all college-wide degree requirements, including the foreign language requirement, summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

The Bachelor of Arts (BA) degree can be obtained by completion of the Bachelor of Science (BS) degree requirements plus additional courses required by the University as set forth in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.

Current majors in the Department of Chemistry and Biochemistry are generally discouraged from taking courses required for the major as transient students unless taken over the Summer, in order to meet milestones in their MAP. All upper-level chemistry courses (i.e. courses at the 3000 or 4000 level) applied toward any of the department's majors must be taken at Florida State University, unless specifically exempted by the chair by written request. Students planning to transfer to Florida State University, either as a transfer or transient student, should make note of this requirement.

Prospective majors should note the mathematics and physics requirements. To allow optimal flexibility in planning the upper-division programs, fulfillment of the mathematics requirements should be started in the freshman year. Chemistry, biochemistry, and environmental chemistry majors are required to take General Physics A and B (PHY 2048C and PHY 2049C) as preparation for Physical Chemistry I and II (CHM 4410 and CHM 4411). Chemical science majors may meet the physics requirement with either the calculus-based or non-calculus-based (PHY 2053C and PHY 2054C) physics sequence.

The calculus courses required for the chemistry major constitute a minor in mathematics, and no other minor is necessary. The biology courses required for the baccalaureate degree in biochemistry constitute a minor in biological sciences, and no additional minor is necessary. The two courses in calculus (MAC 2311 and MAC 2312) and the two calculus-based physics courses (PHY 2048C and PHY 2049C) required for the environmental chemistry major constitute an interdepartmental minor approved by the Department of Chemistry and Biochemistry. This interdepartmental minor may be used for the chemical science majors who substitute calculus-based physics for the required non-calculus-based physics. Otherwise the baccalaureate degree in chemical science must include a minor of at least twelve semester hours in an approved minor field. No courses used for satisfying liberal studies requirements may also be counted toward the minor.

Final clearance for all majors is made by the Department of Chemistry and Biochemistry. Students graduating must complete an exit survey, without which the department will not approve graduation.

Academic Performance

All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

All courses applicable to the major must be completed with a "C–" grade or better. Students must earn a "C–" or better in the first course of a two-semester sequence to continue that sequence (or file an undergraduate appeal with the Student Affairs Office, to be reviewed by the Undergraduate Advising and Awards Committee, to request taking the year-sequence course out of sequence).

A student who has received more than three unsatisfactory grades (U, F, D–, D, or D+) in courses required for the major, excluding the Term 1–4 State Common Program Prerequisites milestone courses, taken after enrolling at FSU, will not be permitted to graduate with a degree in that major.

Baccalaureate Degree in Chemistry

Major in Chemistry

Complete the two-semester sequences in general chemistry (CHM 1045, 1045L, 1046, 1046L, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); analytical chemistry (CHM 3120, 3120L, 4130, 4130L); physical chemistry (CHM 4410, 4410L, 4411, 4411L); and one semester of inorganic chemistry (CHM 4610) and the associated laboratory (CHM 4610L). Also required are mathematics through calculus III and two semesters of calculus-based physics. The physics and math requirements should be met before taking physical chemistry. **Biochemistry, environmental chemistry, and chemical science majors cannot double major in chemistry.**

Major in Environmental Chemistry

Complete the two-semester sequences in general chemistry (CHM 1045, 1045L, 1046, 1046L, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); analytical chemistry (CHM 3120, 3120L, 4130, 4130L); physical chemistry (CHM 4410, 4410L, 4411, 4411L); and two semesters of advanced work in chemistry of the environment, including some aspects of aquatic, atmospheric, and geological chemistry. Courses that satisfy this requirement include: BCH 4053, CHM 4905 (three credit hours), CHM 4906 (three credit hours), EOC 4631, GLY 4240, GLY 4780, GLY 4884, IDS 3232, OCC 4002, and PCB 4674. Also required are mathematics through calculus III, two semesters of calculus-based physics, and two semesters of either biology or geology (at least one of these courses must include a lab). The physics and math requirements should be met before taking physical chemistry. Students may obtain an elective from a list obtained from the environmental chemistry advisor or the departmental Web site. **Chemistry, biochemistry, and chemical science majors cannot double major in environmental chemistry.**

American Chemical Society Certification

Students obtaining the baccalaureate degree in chemistry may obtain certification from the American Chemical Society (ACS). Certification requires completion of the core chemistry curriculum listed above, plus BCH 4053 or BCH 4624 and one additional upper-level chemistry course. Independent research taken as CHM 4905r, Directed Individual Study, or 4906r, Honors Work, may be counted as the upper-level chemistry course, provided that a final report is written by the student and approved by the supervising faculty, and a copy of the report submitted to the Student Affairs Office. Students planning to obtain ACS certified degrees should have their program of studies approved by an advisor in the department.

Baccalaureate Degree in Biochemistry

Students must complete the two semester sequences in general chemistry (CHM 1045, 1045L, 1046, 1046L, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); analytical chemistry (CHM 3120, 3120L, 4130, 4130L); physical chemistry (CHM 4410, 4411); and biochemistry (BCH 4053, 4054) along with **one** of the following laboratories: physical chemistry (CHM 4410L **and** 4411L), biochemistry (BCH 4053L), **or** honors research (CHM 4906r). Mathematics through calculus II and two semesters of calculus-based physics are also required and should be completed before taking physical chemistry. Calculus III is recommended as preparation for physical chemistry. Further, the following biology courses are required: general biology (BSC 2010, 2010L, 2011, 2011L), genetics (PCB 3063), and a biology elective from a list obtained from the biochemistry advisor. **Chemistry, environmental chemistry, and chemical science majors cannot double major in biochemistry.**

Baccalaureate Degree in Chemical Science

Major in Chemical Science

Students must complete the two-semester sequences in general chemistry (CHM 1045, 1045L, 1046, 1046L, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); analytical chemistry (CHM 3120, 3120L, 4130, 4130L); physical chemistry (CHM 3400 or both CHM 4410 and 4411); mathematics through calculus I; and a two-semester sequence in physics, either with or without the use of calculus. **Chemistry, biochemistry, and environmental chemistry majors cannot double major in Chemical Science.**

Major in Chemical Science/FSU-Teach

Students must complete the two-semester sequences in general chemistry (CHM 1045, CHM 1045L, CHM 1046, CHM 1046L, or CHM 1050, CHM 1050L, CHM 1051, CHM 1051L); organic chemistry (CHM 2210, CHM 2211, CHM 2211L); plus at least one semester of analytical chemistry (CHM 3120, CHM 3120L); physical chemistry (CHM 3400 or both CHM 4410 and CHM 4411); inorganic chemistry (CHM 4610); biochemistry (BCH 3023C or BCH 4053); as well as one or more of the following electives for at least three credit hours: Advanced Analytical Chemistry (CHM 4130), Environmental Chemistry I (CHM 4080), Directed Individual Study (CHM 4905r), or Honors Research (CHM 4906r). Mathematics through calculus I; and a two-semester sequence in physics, either with or without the use of calculus. Chemistry, biochemistry, and environmental chemistry majors must receive permission from the department to double major in Chemical Science/FSU-Teach. Students in the FSU-Teach Program must also complete a Science Teaching major; for more information, see the FSU-Teach Web site at *http://FSU-Teach.fsu.edu*.

Suggested Specialized Electives for Chemical Science

Medicine

Students intending to study medicine are advised to satisfy the minimum requirements with BSC 2010, 2010L, 2011, 2011L; PCB 3063; and the four credit hour premedical Human Biochemistry (BCH 4624) course. Vertebrate Physiology (PCB 3743) is a recommended elective. Furthermore, calculus II, the calculus-based physics courses, and certain other upper-level biology courses may provide additional preparation for the MCAT and subsequent coursework in medical school. These students should prepare programs of study in consultation with advisors in the Department of Chemistry and Biochemistry and with the College of Medicine.

Forensic Science

Students intending to pursue a career in forensic science may choose to major in chemical science with the addition of the following courses: BSC 2010, 2010L, 2011, 2011L, and a biochemistry course with lab (BCH 3023C, or BCH 4053 and BCH 4053L). Certain government agencies (e.g. the FBI) may recommend a background in accounting.

Oceanography

Students intending to specialize in oceanography are advised to include OCE 4008 in the program of studies, along with selected electives in biological and earth sciences (e.g., GLY 4240; OCC 5050).

Business

The baccalaureate degree in chemical science with a minor in business can prepare students for management and marketing positions in the chemical and other technical industries and also provide a strong technical background for students interested in entering programs such as that for the Master of Business Administration (MBA) degree. Suggested minor courses are at least one course each in accounting, management, marketing, and finance and one or more business electives. In addition, courses in economics and behavioral science (satisfying liberal studies social sciences requirement) and in computer programming, statistics, and written composition beyond basic English are recommended. Consult with an advisor in the Department of Chemistry and Biochemistry and with a representative of the College of Business in preparing a specific program.

Requirements for a Minor in Chemistry

The requirements for a minor in chemistry include the two-semester sequence in general chemistry (CHM 1045, 1045L, 1046, 1046L, or CHM 1050/1050L, 1051/1051L) and at least one of the following course sequences: CHM 2210–2211, CHM3120–3120L, CHM 3217–CHM 3217L,CHM 4410–4411. A minimum of twelve semester hours is required. Grades below "C–" will not be accepted for minor credit.

Advanced Placement in Chemistry

Students with an Advanced Placement (AP) score of 3 will receive four semester hours of credit in CHM 1020 and 1020L; an AP score of 4 earns the student credit for CHM 1045 and 1045L; an AP score of 5 earns the student credit for CHM 1045, 1045L, 1046, and 1046L. Students with an AP score of 3 are eligible to take a departmental placement exam for CHM 1045 and 1045L.

International Baccalaureate Diploma

International Baccalaureate (IB) diploma holders with a score of 4 will receive three semester hours of credit in CHM 1020C. Those with a score of 5 or higher will earn credit for CHM 1020 (two hours) and 1045/1045L (four hours).

Policy on Reduced Credit

Students may* register for reduced credit if CHM 1032 is taken after passing CHM 1020, if CHM 1045 is taken after passing CHM 1020, or if CHM 1045 is taken after passing CHM 1032, as indicated in the following table:

Sequence of Lecture Courses Taken:	Semester Hours Awarded for Each Course:		
	CHM 1020	CHM 1032	CHM 1045
CHM 1020 only	3	—	—
CHM 1032 only	—	3	—
CHM 1045 only	—	—	3
CHM 1020, then 1032	3	2	—
CHM 1020, then 1045	3	—	2
CHM 1020, then 1032, then 1045	3	2	1
CHM 1032, then 1045	—	3	2

* Students seeking admission to professional programs such as medicine or pharmacy should not take courses for reduced credit.

Note: CHM 1020 and 1032 are not preparatory courses for CHM 1045 and should not normally be taken prior to beginning the general chemistry sequence.

Definition of Prefixes

BCH—Biochemistry (Biophysics)
CHM—Chemistry
IDS—Interdisciplinary Studies
ISC—Interdisciplinary Sciences
PSC—Physical Sciences
SCE—Science Education

Undergraduate Courses

General Chemistry

CHM 1020. Chemistry for Liberal Studies (3). This course introduces basic chemical principles without an extensive use of mathematics and illustrates with applications in health, energy, and the environment. The course strives to show chemistry as a human endeavor that provides insight into the natural world and informs our decisions as citizens and consumers. Specific topics vary by semester. Designed as a course for students who wish to fulfill the liberal studies science requirement with chemistry and will take no further chemistry courses, not as a preparatory course for CHM 1045. Credit is not allowed for CHM 1020 after taking CHM 1032, 1045, or equivalent.

CHM 1020C. Chemistry for Liberal Studies (4). This course introduces basic chemical principles without an extensive use of mathematics and illustrates with applications in health, energy, and the environment. The course strives to show chemistry as a human endeavor that provides insight into the natural world and informs our decisions as citizens and consumers. Specific topics vary by semester. Designed as a course for students who wish to fulfill the liberal studies science requirement with chemistry and will take no further chemistry courses, not as a preparatory course for CHM 1045. Credit is not allowed for CHM 1020 after taking CHM 1032, 1045, or equivalent.

CHM 1020L. Chemistry for Liberal Studies Laboratory (1). Pre- or corequisite: CHM 1020. This laboratory emphasizes major topics from CHM 1020 relating chemistry concepts and techniques to everyday life experiences. This laboratory-based course meets two hours a week. No credit allowed after taking CHM 1045.

CHM 1032. Survey of General Chemistry (3). Prerequisite: MAC 1105 with a grade of "C–" or better or placement beyond MAC 1105. This lecture-based course is the first course in general chemistry for students in nursing, nutrition and fitness, and other areas requiring a short course leading to CHM 2200. Students taking CHM 1032 after taking CHM 1020 may register for reduced credit; see Policy on Reduced Credit.

CHM 1045. General Chemistry I (3). Prerequisite: MAC 1105 with a grade of "C–" or better or placement beyond MAC 1105. This course includes topics such as chemical symbols, formulas, and equations; states of matter; reactivity in aqueous solution; electronic structure, bonding, and molecular geometry. Students taking CHM 1045 after taking CHM 1020 and/or CHM 1032 may register for reduced credit, as indicated in the department's policy on reduced credit.

CHM 1045L. General Chemistry I Laboratory (1). Prerequisite: MAC 1105 with a grade of "C–" or higher or placement beyond MAC 1105. Corequisite: CHM 1045. This laboratory offers an introduction to quantitative techniques and to the chemical laboratory. Topics include stoichiometry, atomic spectra, gases, as well as acids and bases.

CHM 1046. General Chemistry II (3). Prerequisites: CHM 1045 or CHM 1050, each with a grade "C–" or better. This course includes topics such as intermolecular forces, chemical kinetics, equilibrium, acids and bases, elementary thermodynamics, and electrochemistry.

CHM 1046L. General Chemistry II Laboratory (1). Prerequisites: CHM 1045 and CHM 1045L or CHM 1050 and CHM 1050L. Corequisite: CHM 1046. This laboratory offers an introduction to quantitative techniques and to the chemical laboratory. Topics include intermolecular forces, solutions, kinetics, equilibria, acids and bases, buffers, solubility, thermodynamics and electrochemistry.

CHM 1050. Honors General Chemistry I (3). Prerequisite: MAC 1105 with a grade of "C–" or better or placement beyond MAC 1105. Corequisite: CHM 1050L. This course is a first general chemistry course for honors students. Topics include kinetic theory, atomic theory of matter, atomic structure and the periodic chart, condensed phases, introductory chemical bonding.

CHM 1050L. Honors General Chemistry I Laboratory (1). Prerequisite: MAC 1105 with a grade of "C–" or higher or placement beyond MAC 1105. Corequisite: CHM 1050. This laboratory is an introduction to quantitative techniques and chemical laboratory. Topics include stoichiometry, atomic spectra, thermodynamics, gases, as well as acids and bases, chemical structures and reactivity.

CHM 1051. Honors General Chemistry II (3). Prerequisites: CHM 1050 and CHM 1050L, each with a grade of "C–" or better, or CHM 1045 and CHM 1045L, each with a grade of "C–" or better and instructor permission. Corequisite: CHM 1051L. This course is a continuation of general chemistry for honors students. Topics include solution equilibria; acid/base chemistry; oxidation, reduction, and electrochemical cells; chemical analysis; hydrides and oxides of the elements; kinetics; advanced bonding and structure.

CHM 1051L. Honors General Chemistry II Laboratory (2). Prerequisites: CHM 1050 and CHM 1050L, each with a grade of "C–" or better. Corequisite: CHM 1051. This laboratory is an opportunity for research-based special projects.

CHM 3930r. Special Topics in Chemistry (1–3). May be repeated to a maximum of three semester hours.

CHM 4090L. Science Glassblowing (1). This course is laboratory instruction of fundamental glassblowing techniques of greatest utility to the experimental scientist who may require custom glassware.

CHM 4905r. Directed Individual Study (3). Prerequisites: Upper class standing, "B" average in chemistry courses, and approval of the faculty supervisor. May be repeated to a maximum of eighteen semester hours.

CHM 4906r. Honors Work (1–6). This course is for Honors in the Major work only. May be repeated to a maximum of nine semester hours.

CHM 4948. Safety in Scientific Research (1–2). (S/U grade only.) Prerequisites: CHM 1046 and CHM 1046L, or equivalents. This course offers a comprehensive survey of methods for the evaluation of hazards related to scientific research and strategies for the development of risk mitigation, as well as implementation of best practice techniques for lab activity management.

IDS 2381. Chemistry in Art: From Pottery to Forgery (3). This course introduces students to chemistry by exploring the fundamental chemical concepts and phenomena that underlie the emergence and appearance of various forms of art. The course teaches students to appreciate the atomic nature of matter, how atoms come together to make chemical compounds and generate particular properties that are reflected in the artwork and in our perception of art forms. A significant part of this course focuses on writing. Students are expected to demonstrate improving writing skills throughout the course.

ISC 3076. Science, Technology, and Society (3). Prerequisite: Junior standing or instructor permission. This course examines interrelations among science, technology, and society. Science is considered as an enterprise in modern society that produces technological advances and new perspectives on reality. This course cannot be used as credit toward a major or a minor in a science department.

PSC 2801C. Physical Science for EC/EE Teachers (4). This course is designed for prospective elementary and early childhood education majors. The course combines physics and chemistry and the laboratory is integral to the course. The course includes laboratory exercises. Students work in groups in a hands-on, minds-on approach to learning physical science.

SCE 4939r. Seminar in Contemporary Science, Mathematics, and Science Education (1). This course includes presentations of contemporary and interesting issues in science, mathematics, or teaching methods. Content varies from semester to semester. May be repeated to a maximum of four semester hours.

Analytical Chemistry

CHM 3120. Analytical Chemistry I (3). Prerequisite: CHM 1046 and CHM 1046L, each with a grade of "C–" or better. This first course in analytical chemistry covers statistical analysis of analytical data, acid-base equilibria, acid-based titrations, electrochemistry, analytical separations, as well as atomic and molecular optical spectroscopy.

CHM 3120L. Analytical Chemistry I Laboratory (1). Corequisite: CHM 3120. This course is the laboratory portion of Analytical Chemistry I. Experiments include: potentiometric titration of acid mixtures, spectrophotometric determination of pH, spectrophotometric determination of iron in drinking water, lithium by flame emission, fluoride ion-selective electrodes, copper in metal alloys by liquid-liquid extraction, and quantitative analysis of hydrocarbons by gas chromatography.

CHM 4080. Environmental Chemistry I (3). Prerequisites: CHM 1046, CHM 1046L, and CHM 3120, each with a grade of "C–" or better. This course focuses on the application of geologic and geochemical principles to environmental issues. Topics include: an evaluation of contaminants in surface and ground water; hydrocarbon geochemistry and petroleum contamination; waste management, including solid, toxic and nuclear waste; air quality issues, including radon and asbestos; geologic hazards in upland and coastal areas; environmental methods and instrumentation, quality assurance and quality control in environmental analysis; principles of toxicology; risk assessment and risk management.

CHM 4081. Environmental Chemistry II (3). Prerequisite: CHM 2211 with a grade of "C–" or better. This course studies the organic geochemistry of natural waters and sediments. It offers an overview of the sources of organic matter in aquatic systems, the important reactions and transport mechanisms that control the biochemical cycling of organic carbon in these systems, and the impact of naturally-occurring organic carbon on environmental and ecological processes. Attention is also devoted to anthropogenic (xenobiotic) organic molecules. It also discusses how analytical techniques such as ^{13}C NMR, mass spectroscopy, and capillary electrophoresis provide useful organic biogeochemical information.

CHM 4130. Advanced Analytical Chemistry (3). Prerequisites: CHM 3120 and CHM 3120L, each with a grade of "C–" or better, as well as PHY 2048C or PHY 2053C with a grade of "C–" or better. Corequisite: CHM 4410. This course covers data analysis, laboratory computers, atomic and molecular optical spectroscopy, nuclear-magnetic resonance spectroscopy, chromatography and electrophoresis, electrochemistry, and mass spectrometry.

CHM 4130L. Advanced Analytical Chemistry Laboratory (1). Corequisite: CHM 4130 (recommended before CHM 4130L). This course is the laboratory portion of CHM 4130, Advanced Analytical Chemistry. Experiments include: signal enhancement by filtering and ensemble averaging, flame spectroscopy determination of Li and Mg, spectroflurometric determination of quinine, UV-visible spectroscopy, high-performance liquid chromatography (HPLC) simulations, Raman spectroscopy, solvent extraction and gas chromatography, as well as HPLC determination of analgesics. It is recommended that students complete CHM 4130 with a grade of "C–" or better before taking CHM 4130L, although the courses can be taken simultaneously.

Biochemistry

BCH 3023. Survey of Biochemistry (3). Prerequisite: CHM 2200 or CHM 2211. Corequisite: BCH 3023L. This course is designed to provide a survey of biochemistry topics relevant to those in the allied health and pre-medicine fields of study.

BCH 3023C. Introduction to Biochemistry (3). Prerequisites: CHM 2200 and CHM 2200L both with a grade of "C–" or better, or CHM 2211 and CHM 2211L both with a grade of "C–" or better. This course is a survey of modern biochemistry with special emphasis on those concepts which might be of use to nutrition and food scientists.

BCH 3023L. Survey of Biochemistry Laboratory (1). Corequisite: BCH 3023. This course focuses on application of molecular biology techniques to a broad range of biochemistry topics and provides a basic survey of information relevant to students in allied health and pre-medicine fields of study.

BCH 4053. General Biochemistry I (3). Prerequisite: CHM 2211 with a grade of "C–" or better. This course is the first course required for biochemistry majors; the course is also recommended for other majors who intend to study advanced biochemistry. Topics covered include protein structure, protein function, membranes, enzyme catalysis, bioenergetics, carbohydrate metabolism, and lipid metabolism.

BCH 4053L. General Biochemistry I Laboratory (3). Prerequisite: BCH 4053 or instructor permission. This lab explores laboratory methods in biochemistry including electrophoresis, chromatography, cell fractionation, enzyme assays, ligand interactions, and recombinant DNA technology.

BCH 4054. General Biochemistry II (3). Prerequisite: BCH 4053 with a grade of "C–" or better. This course is the second course required for biochemistry majors; it is also recommended for other majors who intend to study advanced biochemistry. Topics include quantitative analysis of assembly and mechanisms of molecular machines involved in metabolic and information transfer processes, how proteins bind proteins, nucleic acids, and ligands, as well as the methods for characterizing structures and interactions. This lecture-based course meets three hours a week.

BCH 4624. Human Biochemistry (4). Prerequisite: CHM 2211 or instructor permission. This course is intended for pre-professional students who are not majoring in biochemistry; it covers the main concepts of biochemistry at same level as BCH 4053/4 but presents them at an accelerated pace. Topics include molecular structure, bioenergetics, enzymology and enzyme regulation, metabolism, as well as gene expression and regulation. This lecture-based course meets four hours a week.

CHM 3218. One Semester Biochemistry (4). Prerequisites: CHM 2211 or CHM 3217. This course introduces the basic concepts of biochemistry and molecular biology from an organic chemistry structural and mechanistic perspective.

Inorganic Chemistry

CHM 4610. Inorganic Chemistry (3). Prerequisites: CHM 2211 and CHM 2211L, each with a grade of "C–" or better. Corequisite: CHM 4410 or instructor permission. This course explores physical principles, systematics in the chemistry of periodic groups, descriptive chemistry of the inorganic elements. Topics include atomic structure and the periodic classification of the elements, chemical bonding and reactivity, acid-base chemistry, chemistry of main group elements, and coordination chemistry of the transitional metal elements.

CHM 4610L. Inorganic Chemistry Laboratory (1). Prerequisite: CHM 4610 with a grade of "C–" or better. This lab covers synthesis and characterization of inorganic compounds.

Materials Chemistry

CHM 4455. Polymer Chemistry (3). Prerequisite: CHM 2211. The course covers polymers (plastics) which encompass nearly every facet of our daily lives, and the rich variety of properties and functions that characterize these materials, which is deeply seeded in the chemistry and architecture of their macromolecular structure. This course broadly surveys these materials, the current state of the field, and the modern challenges and research opportunities within it.

CHM 4714. Chemistry of Materials (3). Prerequisites: CHM 1045 or CHM 1046; CHM 2210 or CHM 2211; or instructor permission. This course is an introduction to materials chemistry, focusing on the structure, properties, and functional applications of molecular materials, polymers, glasses and ceramics, metals and alloys, and bio- and nanomaterials.

Organic Chemistry

CHM 2200. Survey of Organic Chemistry (3). Prerequisites: CHM 1045 and CHM 1045L and CHM 1046 and CHM 1046L, each with a grade of "C–" or better. This course is a one-semester survey of organic chemistry intended for students in nutrition and fitness (fitness option), or for students needing an overview of organic compounds, functional groups, and reactions.

CHM 2200L. Survey of Organic Chemistry Laboratory (1). Corequisite: CHM 2200.

CHM 2210. Organic Chemistry I (3). Prerequisite: CHM 1046 and CHM 1046L, each with a grade of "C–" or better. Students who complete CHM 1045 or CHM 1050 with a grade of "B" or better and have instructor permission may take this course simultaneously with either CHM 1046 or CHM 1051. This course is the first in a sequence of courses for chemistry majors, premedicine students, biologists, or any other majors requiring a good background in organic chemistry, the course covers the fundamentals of structure and chemical behavior of organic molecules.

CHM 2211. Organic Chemistry II (3). Prerequisite: CHM 2210 with a grade of "C–" or better or instructor permission.

CHM 2211L. Organic Chemistry II Laboratory (3). Pre- or corequisite: CHM 2211. This lab is a one semester organic laboratory for majors in the physical and life sciences.

CHM 3217. One Semester Organic Chemistry (3). Prerequisite: CHM 1046 and CHM 1046L, or CHM 2047 and CHM 2047L. This course provides a rigorous one semester overview of the structure, properties, and reaction of organic compounds. It is intended for students who are willing and able to move quickly into advanced course work.

CHM 3217L. One Semester Organic Chemistry Laboratory (1). Pre- or corequisite: CHM 3217. In this course, students perform basic organic lab techniques synthesis, recrystallization, separations, extraction, chromatography; introduction to nuclear magnetic resonance (NMR) and infrared (IR) spectroscopy.

Physical Chemistry

CHM 3400. General Physical Chemistry (4). Prerequisites: CHM 1046, CHM 1046L, and MAC 2311, each with a grade of "C–" or better. This course focuses on an elementary treatment of general physical chemistry, including thermodynamics, equilibrium, electromotive force, kinetics, atomic structure, and an introduction to quantum theory. For the chemical science major and interested nonmajors.

CHM 4410. Physical Chemistry I (3). Prerequisites: CHM 1045 and CHM 1045L with a grade of "C–" or better or instructor permission; MAC 2312 with a grade of "C–" or better; MAC 2313 with a grade of "C–" or better recommended. Corequisite: PHY 2049C. This course covers thermodynamics, kinetic theory of gases, reaction kinetics, as well as introductions to quantum mechanics and to statistical mechanics.

CHM 4410L. Physicochemical Measurements and Techniques I (1). Corequisite: CHM 4410. Before attempting this course satisfaction of the University's requirement for computer skills is recommended.

CHM 4411. Physical Chemistry II (3). Prerequisites: CHM 1045 and CHM 1045L and CHM 4410 with a grade of "C–" or better or instructor permission; MAC 2312 with a grade of "C–" or better; MAC 2313 with a grade of "C–" or better recommended. Corequisite: PHY 2049C. This course covers thermodynamics, kinetic theory of gases, reaction kinetics, as well as introductions to quantum mechanics and to statistical mechanics.

CHM 4411L. Physicochemical Measurements and Techniques II (2). Prerequisite: CHM 4410L with a grade of "C–" or better. Corequisite: CHM 4411. Before attempting this course satisfaction of the University's requirement for computer skills is recommended.

Graduate Courses

Analytical Chemistry

CHM 5086. Environmental Chemistry I (3).
CHM 5087. Environmental Chemistry II (3).
CHM 5138. Mass Spectrometry (3).
CHM 5140. Introduction to Chemical Instrumentation (3).
CHM 5151. Optical Methods of Chemical Analysis (3).
CHM 5153. Electrochemistry (3).
CHM 5154. Chemical Separations (3).
CHM 5180r. Special Topics in Analytical Chemistry (1–3).
CHM 5454. Polymer Characterization (3).
CHM 6190r. Analytical Chemistry Seminar (1).
CHM 6191r. Analytical Chemistry Seminar (1). (S/U grade only.)

Biochemistry

BCH 5405. Molecular Biology (3).
BCH 5505. Structure and Function of Enzymes (3).
BCH 5745. Chemical and Physical Characterization of Biopolymers (3).
BCH 5884. Programming for Chemists and Biochemists (3).
BCH 5886r. Special Topics in Biochemistry and Cell Biology (1–3).

BCH 5887r. Special Topics in Biochemistry and Cell Biology (1–3).
BCH 6896r. Biochemistry Seminar (1).
BCH 6897r. Biochemistry Seminar (1). (S/U grade only.)
CHM 5506. Physical Chemistry of Macromolecules I (3).
CHM 5507. Physical Chemistry of Macromolecules II (3).

Inorganic Chemistry

CHM 5442. Kinetics and Mechanisms (3)
CHM 5620. Principles of Inorganic Chemistry (3).
CHM 5680r. Current Topics in Inorganic Chemistry (1–3).
CHM 5681r. Current Topics in Inorganic Chemistry (1–3).
CHM 6690r. Inorganic Chemistry Seminar (1).
CHM 6691r. Inorganic Chemistry Seminar (1). (S/U grade only.)

Materials Chemistry

CHM 5450. Polymer Chemistry (3).
CHM 5715r. Topics in Materials Chemistry I (1–3).
CHM 5716r. Characterization of Materials I (1–3).
CHM 5717r. Characterization of Materials II (1–3).
CHM 5718r. Topics in Materials Chemistry II (1–3).
CHM 6936r. Materials Chemistry Seminar I (1). (S/U grade only.)
CHM 6937r. Materials Chemistry Seminar II (1).

Organic Chemistry

CHM 5225. Advanced Organic Chemistry—Structure (3).
CHM 5226. Advanced Organic Chemistry—Reactions (3).
CHM 5245. Physical Organic Chemistry (3).
CHM 5250. Advanced Organic Synthesis (3).
CHM 5330. Graduate Survey of Organic Chemistry (3).
CHM 5380r. Special Topics in Organic Chemistry (1–3).
CHM 6390r. Organic Chemistry Seminar (1). (S /U grade only.)

Physical Chemistry

CHM 5440. Physical and Chemical Kinetics (3).
CHM 5442. Kinetics and Mechanisms (3).
CHM 5460. Thermodynamics and Statistical Mechanics (3).
CHM 5461. Advanced Statistical Mechanics (3).
CHM 5470. Valence Theory (3).
CHM 5480. Quantum Mechanics (3).
CHM 5481. Advanced Quantum Mechanics (3).
CHM 5506. Physical Chemistry of Macromolecules I (3).
CHM 5507. Physical Chemistry of Macromolecules II (3).
CHM 5580r. Special Topics in Physical Chemistry (1–3).
CHM 5581r. Special Topics in Physical Chemistry (1–3).
CHM 5585. Experimental Methods in Physical Chemistry (3).
CHM 6590r. Physical Chemistry Seminar (1).

Multiple Area Courses

CHM 5175r. Measurements and Data Analysis in Chemistry (1–3).
CHM 5555r. Chemical Reactivity (1–3).
CHM 5710r. Chemical Structure and Bonding (1–3).
CHM 5801r. Safety in Scientific Research (1). (S/U grade only.)
CHM 5823r. Supervised Research (1–5). (S/U grade only.)
CHM 5830r. Directed Individual Study (1–6).
CHM 5831r. Directed Individual Study (1–6). (S/U grade only.)
CHM 5832r. Directed Individual Study (1–6). (S/U grade only.)
CHM 5833r. Directed Individual Study (1–6). (S/U grade only.)
CHM 5908r. Focus on Physical Chemistry (3). (S/U grade only).
CHM 5910. Chemical Research (3).
CHM 5911. Chemical Research (3).
CHM 5912. Chemical Research (3).
CHM 5935r. Chemistry Seminars (0). (S/U grade only.)
CHM 5940r. Supervised Teaching (1–5). (S/U grade only.)
CHM 5945. Seminar on Chemical Education (1). (S/U grade only.)
ISC 5295. College Science Teaching and Learning (3-5).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

CHILD DEVELOPMENT:
see Family and Child Sciences

CHILDHOOD EDUCATION:
see Childhood Education, Reading, and Disability Services

CHINESE:
see Asian Studies; Modern Languages and Linguistics

Undergraduate Department of CIVIL AND ENVIRONMENTAL ENGINEERING

FAMU–FSU College of Engineering

Website: *https://www.eng.famu.fsu.edu/cee/*

Chair: Lisa Spainhour; **Professors:** Abichou, AbdelRazig, Chen, Clark, Huang, Moses, Mtenga, Ping, Sobanjo, Spainhour, Tawfiq; **Professor of Practice:** Martin; **Associate Professors: Jung, Ozguyen, Rambo-Rodenberry; Assistant Professors:** Choi, Dulebenets, Tang, Zhang; **Teaching Professor:** Adalier, Ahmad, Pamuk; **Teaching Faculty I:** Guo, Kampmann; **Professors Emeriti:** Dzurik, Nnaji, Wekezer

Opportunities and Facilities

Many opportunities exist in the field of civil engineering that encompass planning, designing, and managing a variety of projects. Your work could be on site at a project or at a computer workstation. Civil and environmental engineers often find themselves involved in many of the public work projects funded by federal, state, and municipal governments, as well as those projects undertaken by the private sector. As a structural engineer, you might analyze and design structures out of steel, concrete, aluminum, timber, plastic, and other new materials that are able to support required loads and withstand natural disasters. An environmental engineer, with a background in either physical, chemical, or biological science, helps to prevent and solve environmental problems. Engineers in the geotechnical realm apply technology, field test information, and laboratory analyses related to mechanics and mathematics to create the infrastructure facilities within and on top of the earth. The structure and stability of soils determine how and where to construct tunnels, pipelines, and deep foundations as well as highways and other buildings. In hydraulic and water resources engineering, you might design, construct, or maintain facilities related to the quality and quantity of water, flood prevention, wastewater treatment, and water front erosion protection. As a professional in transportation engineering, your purpose is to move people and things in a safe and efficient manner locally and through mass transportation systems. Transportation facilities include highways, airfields, railroads, and sea ports. Several courses are also offered in construction engineering.

Instructional equipment includes the MTS structures and material testing systems with computer control for data acquisition and analysis, equipment for *in situ* and laboratory measurements of engineering properties of soils and rocks, including triaxial, bearing, and shear testing equipment and seismographs; and a self-contained glass-sided tilting flume for investigations of flow phenomena and sediment transport. A complete stand-alone automated data acquisition and analysis system is available for undergraduate student laboratory work and research. A fully equipped water quality testing lab as well as portable field testing kits are used both for classroom teaching as well as for student research and design projects.

Students have access to a large number and variety of computer systems. A network of nearly 700 computing devices is available for the academic and research efforts of the college.

The college computers are connected to a high-speed, switched, fiber-optic LAN and to the Internet via the Florida State University connection to the NSF v BNS network. Other nearby resources include the Department of Scientific Computing. Additional information about the department can be obtained from the college home page: *http://www.eng.famu.fsu.edu*.

Programs Offered

The department offers a program of study for the Bachelor of Science (BS) in civil engineering which is accredited by ABET, Inc*, 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012,* phone *(410) 347-7700*. The civil engineering major is broad-based, emphasizing all aspects of civil engineering practice, including structural geotechnical, construction, transportation, hydraulics, water resources, and environmental engineering. Within the civil engineering program, the environmental engineering major is a course of study that focuses primarily on environmental engineering, hydraulics, hydrology, water resources, and water quality.

Regardless of focus, all students learn to apply state-of-the-art technologies to solve problems in these areas.

The department offers graduate programs leading to the Master of Science (MS) and Doctor of Philosophy (PhD) degrees in civil engineering. Within the MS program, the courses-only Master of Engineering (MEng) option is available. These programs provide areas of concentration in structural, geotechnical, environmental/water resources, and construction/transportation engineering.

Admission to graduate programs requires a 3.0 grade point average (GPA) in the last two years of undergraduate school and an acceptable score on the graduate record exam (GRE). For the MEng option, evidence of passing the NCEES Fundamentals of Engineering (FE) or Principles and Practice of Engineering (PE) exam or holding PE licensure may be used in lieu of the GRE. For more details, refer to the Graduate Bulletin or the department Web site at *http://www.eng.fsu.edu/cee/*.

B.S.–M.Eng. Pathway

This pathway provides academically talented undergraduate students an opportunity to complete both a bachelor's and a master's degree in 5 years. Upon approval, this pathway allows 6 graduate hours to be double-counted toward an undergraduate degree program. The student will earn the Bachelor of Science (BS) degree upon completion of the undergraduate program and the Master of Engineering (MEng) degree upon completion of the graduate program.

The program requirements for the graduate portion of this pathway are identical to the M.Eng. program requirements shown above. The only difference is that the pathway students take 24 hours of coursework instead of 30 hours, because 6 graduate hours were already taken while getting the undergraduate degree.

When the student is in the undergraduate program, the student submits an on-line application to the combined degree pathway. Overall GPA of 3.2 as well as area-specific requirements must be met. To ensure smooth transition to the graduate program, it is recommended that the students apply during Terms 5 or 6 (the Junior year) according to the CEE Undergraduate Academic Map. Additional information and the online application is available at https://eng.famu.fsu.edu/cee/bs-ms-pathway.

During the last year as an undergraduate, the student applies to the Master of Engineering program. The admission requirements for this step are identical to the master's admission requirements shown earlier.

Mission

The mission of the Department of Civil and Environmental Engineering is to teach the fundamentals of civil engineering science, analysis, design, and management in order to empower students to assume careers as professional engineers; to conduct basic and applied research in order to improve the state of knowledge of civil engineering; to serve as a source of information and advice to the community on engineering matters; and to assist in the continuing education of professional engineers and other interested individuals. The department has a special mission to provide an opportunity for a civil engineering education for under-represented groups in the profession.

Program Educational Objectives

Consistent with the mission and goals of the FAMU-FSU College of Engineering, and based upon the input and needs of its constituents, the Civil Engineering program will produce graduates who achieve the following program educational objectives (PEOs) several years after graduation:

- Progress in successful professional careers in civil and environmental engineering or related fields, and/or enroll in studies at the graduate level;
- Apply engineering principles to address the needs of society, including sustainability, and practice effective management, communication, and leadership skills;
- Respond to the rapid pace of change in civil and environmental engineering by becoming professionally licensed, engaging in ongoing continuing education, and participating in professional society activities; and
- Contribute to workforce diversity as members and leaders of multi-disciplinary teams.

Student Learning Outcomes

By the time students graduate from the Civil Engineering program, they will attain the following outcomes and attributes at the time of their graduation:

- An ability to identify, formulate, and solve civil engineering problems by applying principles of engineering, science, and mathematics;
- An ability to apply both analysis and synthesis in the engineering design process, resulting in designs that meet desired needs;
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions;
- An ability to communicate effectively with a range of audiences;
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts;

An ability to recognize the ongoing need for additional knowledge and locate, evaluate, integrate, and apply this knowledge appropriately;

An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.

Engineering Design

Following engineering design criteria established by ABET, the civil engineering curricula provide excellent design experiences for students. The faculty of the Department of Civil and Environmental Engineering has carefully integrated design components into the curriculum with increased complexity as students progress toward graduation. These design components offer opportunities for students to work individually and in teams on meaningful engineering design experiences building upon the fundamental concepts of mathematics, basic sciences, humanities, social sciences, engineering topics, and oral and written communication skills. Design components in engineering coursework help students develop an appreciation for and apply the knowledge of the wide variety of courses they have studied. Consequently, they participate in meaningful solutions and effective design development for practical engineering problems.

A majority of the design experiences is integrated into junior and senior level courses.

In both majors, CGN 4800, Pre-Senior Design and Professional Issues, and CGN 4802, Senior Design Project, provide significant, culminating design experiences in which students working in interdisciplinary teams apply realistic constraints to an actual engineering scenario.

Additional information about design credits may be obtained from departmental brochures and by contacting faculty advisors at the Department of Civil and Environmental Engineering.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in civil and environmental engineering satisfy this requirement by earning a grade of "C–" or higher in CEG 2202L, Introduction to Geomatics Engineering Lab.

Oral Communication Competency

If a grade of "C" or better is earned in the following two courses, the Oral Communication Competency requirement as defined in the "Undergraduate Degree Requirements" section of this *General Bulletin* will be satisfied. If the oral communication competency requirement of either course is not met, the student will not earn an overall grade of "C" or better in the course, regardless of how well the student performs in the remaining portions of the course.

CGN 4800 Pre-Senior Design and Professional Issues (2)
CGN 4802 Senior Design Project (3)

Upper Division Writing / Scholarship in Practice

The Upper Division Writing (UDW) requirement at FSU is met by CGN 4800 Pre-Senior Design, which is a required course for Civil Engineering and Environmental Engineering majors. In order to fulfill FSU's Upper-Division Writing requirement, the student must earn a "C" or higher in the course, and earn at least a "C" average on the required writing assignments. If the student does not earn a "C" average or higher on the required writing assignments, the student will not earn an overall grade of "C" or higher in the course, no matter how well the student performs in the remaining portion of the course.

FSU students must complete two Scholarship in Practice (SIP) courses prior to graduation. CGN 4802 Senior Design Project, which is a required course for Civil Engineering and Environmental Engineering majors, has been approved as a SIP course. In order to fulfill FSU's SIP requirement, the student must earn a "C" or higher in the course.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Civil Engineering

1. MAC X311 or MAC X281
2. MAC X312 or MAC X282
3. MAC X313 or MAC X283
4. MAP X302 or MAP X305
5. CHM X045/X045L or CHM X045C, or CHS X440/X440L
6. PHY X048/X048L or PHY X048C, or PHY X043 and PHY X048L, or PHYX041 and PHYX048L
7. PHY X049/X049L or PHY X049C, or PHY X044 and PHY X049L, or PHYX042 and PHYX049L

Requirements for the Bachelor of Science in Civil Engineering: Civil Engineering Major

In addition to college requirements, a candidate for the BS degree in civil engineering will be expected to successfully complete the following requirements:

Mathematics and Basic Engineering Sciences

CEG 2202 Introduction to Geomatics Engineering (3)
CEG 2202L Introduction to Geomatics Engineering Lab (1)
EGM 3512 Engineering Mechanics (4)
EGN 1004L First Year Engineering Lab (1)
EGN 3331 Strength of Materials (3)
EGN 3613 Principles of Engineering Economy (2)
EEL 3003 Introduction to Electrical Engineering (3)

OR

EML 3100 Thermodynamics (2)
STA 2122 Introduction to Applied Statistics (3)

OR

STA 3032 Applied Statistics for Engineers and Scientists (3)

OR

STA 2023 Fundamental Business Statistics (3)

Note: The 128 credit hours required for CEE degrees is calculated using EEL 3003. Students who take EML 3100 should see their advisor or academic coordinator to ensure that their degree will be a minimum of 128 credit hours total.

Group A Science Elective: An additional three-credit hour science elective course is required to allow students to develop increased breadth in the basic sciences, while completing existing curricular requirements. Students should **select one course** from the following group.

BSC 2010 Biological Science (3)
GLY 1030 Environmental Issues in Geology (3)
GLY 2010C Physical Geology (4)
MET 2700 General Meteorology (3)
PCB 3043 General Ecology (3)
OCE 4008 Principles of Oceanography (3)

Civil Engineering Core Courses

CCE 3101 Construction Materials (3)
CEG 3011 Soil Mechanics (3)
CES 3100 Structural Analysis (4)
CGN 3508L Civil Engineering Materials Laboratory (1)
CWR 3200L Environmental and Hydraulic Engineering Laboratory (1)
CWR 3201 Hydraulics (3)
EES 3040 Introduction to Environmental Engineering (3)
TTE 3004 Transportation Engineering (3)

Civil Engineering Design and Professional Courses

Students must take the courses in the following areas plus three additional electives* for a total of twenty-one hours credit. To meet the requirement, students may select elective courses (as indicated below) to specialize their degree program to suit their individual objectives.

Structures:

CES 4605 Steel Design (3)

OR

CES 4702 Concrete Design (3)

Geotechnical:

CEG 4801 Geotechnical Design (3)

Construction/Transportation:

CCE 4XXX Construction elective (3)

OR

TTE 4XXX Transportation elective (3)

Environmental/Water Resources:

ENV 4XXX Environmental Engineering (3)

OR

CWR 4XXX Hydraulics, Hydrology, or Water Resources elective (3)

Additional Electives

Group B Electives (9 credits total)

Engineering/Math/Science Elective: Any three 4000-level courses (CCE 4XXX, CEG 4XXX, CES 4XXX, approved or selected CGN 4930 courses, CWR 4XXX, ENV 4XXX, TTE 4XXX) offered by the Department of Civil and Environmental Engineering that isn't being used to meet another requirement. Specified 3000- or 4000-level courses selected from engineering, math, or science departments may be used for one Group B elective. See department for a list of approved Group B electives.

Group C Elective (3 credits)

Professional/Technical Elective: A course outside of the CEE department emphasizing professional development, computing, and other professional/technical skills. See department for a current list of approved Group C electives.

Major Design Experience

CGN 4800 Senior Design Project 1 (3)

CGN 4802 Senior Design Project 2 (3)

Requirements for the Bachelor of Science in Civil Engineering: Environmental Engineering Major

In addition to college requirements, a candidate for the Bachelor of Science (BS) degree in civil engineering with a major in environmental engineering will be expected to successfully complete the following course requirements.

Mathematics and Basic Engineering Sciences

CEG 2202 Introduction to Geomatics Engineering (3)

CEG 2202L Introduction to Geomatics Engineering Lab (1)

CHM 1046/L General Chemistry II and Laboratory (4)

OR

MCB 2004 Microbiology for Health Services and Laboratory (4)

EGM 3512 Engineering Mechanics (4)

EGN 1004L First Year Engineering Lab (1)

EGN 3331 Strength of Materials (3)

EGN 3613 Principles of Engineering Economy (2)

EML 3100 Thermodynamics (2)

OR

EEL 3003 Introduction to Electrical Engineering (3)

STA 2122 Introduction to Applied Statistics (3)

OR

STA 3023 Applied Statistics for Engineers and Scientists (3)

OR

STA 2023 Fundamental Business Statistics (3)

NOTE: The 128 credit hours required for CEE degrees is calculated using EEL 3003. Students who take EML 3100 should see their advisor or academic coordinator to ensure that their degree will be a minimum of 128 credit hours total.

Group A Science Elective: An additional three-credit hour science elective course is required to allow students to develop increased breadth in the basic sciences, while completing existing curricular requirements. Students should **select one course** from the following group.

BSC 2010 Biological Science (3)

GLY 1030 Environmental Issues in Geology (3)

GLY 2010C Physical Geology (4)

MET 2700 General Meteorology (3)

PCB 3043 General Ecology (3)

OCE 4008 Principles of Oceanography (3)

Environmental Engineering Core Courses

CCE 3101 Construction Materials (3)

CEG 3011 Soil Mechanics (3)

CGN 3508L Civil Engineering Materials Laboratory (1)

CWR 3200L Environmental and Hydraulic Engineering Laboratory (1)

CWR 3201 Hydraulics (3)

EES 3040 Introduction to Environmental Engineering (3)

TTE 3004 Transportation Engineering (3)

Environmental Engineering Design and Professional Courses

Students are required to take courses in the following areas plus three additional electives for a total of twenty-one credit hours. To meet the requirement, students may select elective courses (as indicated below) to specialize their degree program to suit their individual objectives.

Environmental:

ENV 4XXX Environmental Engineering elective (3)

Water Resources:

CWR 4XXX Water Resources, Hydraulics or Hydrology elective (3)

Geotechnical:

CEG 4801 Geotechnical Design (3)

OR

CEG 4111 Foundations Engineering (3)

Construction /Transportation:

TTE 4XXX Transportation elective (3)

OR

CCE 4XXX Construction elective (3)

Additional Electives

Group B Electives (9 credits total)

Engineering/Math/Science Elective: Any three 4000-level courses (CCE 4XXX, CEG 4XXX, CES 4XXX, approved or selected CGN 4930 courses, CWR 4XXX, ENV 4XXX, TTE 4XXX) offered by the Department of Civil and Environmental Engineering that isn't being used to meet another requirement. Specified 3000- or 4000-level courses selected from engineering, math, or science departments may be used for one Group B elective. See department for a list of approved Group B electives.

Group C Elective (3 credits)

Professional/Technical Elective: A course outside of the CEE department emphasizing professional development, computing, and other professional/technical skills. See department for a current list of approved Group C electives.

Major Design Experience

CGN 4800 Senior Design Project 1 (3)

CGN 4802 Senior Design Project 2 (3)

Department Policies

Pre-Engineering students must adhere to the policies set by the College of Engineering, including standards on declaring Civil Engineering as a major. Students must achieve a grade of "C–" or better in all transfer courses and in all courses that are prerequisites to any required or elective engineering course. In addition, students are required to earn a "C–" or better in all engineering courses that apply toward the degree. In extenuating circumstances, a maximum of one "D" may be waived. The waiver shall not be applied to Senior Design, nor to a course that is a prerequisite for a course in the CEE department.

Pre/Corequisite Course Policy

It is the policy of Department of Civil and Environmental Engineering that a student must receive grades of "C–" or better in *all* prerequisite courses prior to enrolling in a CEE course. Concurrent registration in a course and its prerequisites is *not* allowed. All prerequisites of the prerequisite course must be completed. Failure to abide by this policy can result in the cancellation of your enrollment in any course **at any time during the semester and with no refund of fees**. Corequisite courses must be taken concurrently or prior

to enrolling in the course. Registering for and remaining in a course without having completed all of the pre- and corequisite courses as well as all their prerequisites can result in the Department or the College of Engineering administratively **canceling** your course enrollment at **any** time during the semester and with **no** refund of fees. Changes to prerequisites will be accompanied by a phase-in period: in such cases the CEE undergraduate committee shall serve as the authority regarding the implementation of such changes.

Course Repeat Policy

Criteria

A student in the Department of Civil and Environmental Engineering will be placed on probationary status if the student falls into any of the following situations:

- Accrued two grades below "C–" in a single engineering course that is required under his/her curriculum, or in MAC 2313, MAP 3305/2302, or PHY 2049C, or CHM 1045/1046, or in any Group A, B, C, D Electives.
- Accrued a total of three grades below "C–" in all engineering courses that are required under his/her curriculum, MAC 2313, MAP 3305/2302, and PHY 2049C, or CHM 1045/1046, or in any Group A, B, C, D Electives.
- Has an overall GPA below 2.0

Consequences

A student who meets the above criteria will be placed on academic probation during the subsequent semester and will be required to sign an academic probation/readmit contract with the department. **A student may not graduate while on probation.**

Reinstatement

To be reinstated, the following conditions must be met:

- The student will have one semester (the probationary semester) to raise his/her GPA above 2.0
- The student must retake all courses that were the cause for probation according to an agreed upon schedule (during the probationary semester, if available) and achieve a grade of "C–" or better.

Dismissal

A student on probation will be permanently dismissed from the CEE program and will not be eligible for further reinstatement upon the following conditions:

- If a student who is on probation does not raise his/her GPA above 2.0 and/or achieve a grade of "C–" or better in all courses taken during the probationary semester.
- If a student who has been reinstated to the program subsequently falls below an overall GPA of 2.0 and/or fails to achieve a grade of "C–" or better in any math, science, or engineering course.

A student who has already reached or exceeded the course repeat limits stated above prior to declaring the civil or environmental major is considered to be on reinstatement, and must achieve a grade of "C–" or better in all subsequent courses to avoid permanent dismissal.

Fundamentals of Engineering Exam

All undergraduate students are encouraged to take the Fundamentals of Engineering (FE) exam in the civil engineering discipline during their senior year.

Honors in the Major

The Department of Civil and Environmental Engineering offers Honors in the Major to encourage students to undertake independent and original research to enhance their undergraduate experience. For requirements and more information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Environmental Engineering Science

A minor in environmental engineering science requires a minimum of twelve semester hours of coursework in environmental engineering, including EES 3040 and ENV 4001 plus six additional hours in courses with prefixes EES or ENV at the 3000 level or above, with no more than one of the following courses counting towards the minor: ENV 4341, ENV 4611. Students must consult with the department and obtain written approval before taking courses towards the minor. Students also must satisfy prerequisites before enrolling in any environmental engineering course. Grades of "C–" or better must be earned in each course accepted for minor credit. If an environmental engineering science minor is combined with a civil engineering major, EES 3040, and one other course, up to six credits total may count toward both the major and the minor.

Definition of Prefixes

CCE—Civil Construction Engineering
CEG—Civil Geotechnical Engineering
CES—Civil Engineering Structures
CGN—Civil Engineering
CWR—Civil Water Resources
EES—Environmental Engineering Science
EGM—Engineering Science
EGN—Engineering: General
ENV—Engineering: Environmental
TTE—Transportation Engineering

Undergraduate Courses

CCE 3101. Construction Materials (3). Prerequisite: EGN 3331 (C- or better). This course covers properties and characteristics of construction materials for civil and highway engineering; metals, aggregates, cements, timber, concrete, and asphalt.

CCE 4004. Construction Engineering (3). Prerequisites: CCE 3101 and EGN 3613. This course covers theories, principles, and applications of construction engineering and management. Emphasis is placed on construction preplanning, delivery systems, contracts and bidding, estimation, scheduling, project control, and professional issues.

CCE 4014. Construction Cost Estimating (3). Prerequisites: CCE 3101 and EGN 3613. This course covers construction contracts, organization and cost accounting systems; preliminary cost estimation, and cost indices; estimating material, labor, and equipment costs; construction bidding practices, and bid proposals; and project budgeting and cost systems.

CCE 4031. Construction Planning and Scheduling (3). Prerequisite: CCE 3101. This course includes topics such as: planning, basic arrow diagramming, basic precedence diagramming, establishing activity duration, scheduling computations, bar charts, project controls, overlapping networks, resource leveling, and program evaluation review technique (PERT).

CEG 2202. Introduction to Geomatics Engineering (3). Prerequisite: MAC 2311. Corequisite: CEG 2202L. Pre- or corequisite: EGN 2123. This course explores methods and procedures of surface mapping and subsurface sectioning including distance measurements, traverse computations and topographic mapping, and Global Positioning Systems. Use of field equipment and procedures to measure distances, elevations, angles, and perform complete surveys.

CEG 2202L. Introduction to Geomatics Engineering Lab (1). Corequisite: CEG 2202. Pre- or corequisite: EGN 2123. This course explores methods and procedures of surface mapping and subsurface sectioning including distance, measurements, traverse computations and topographic mapping, and Global Positioning Systems. Use of field equipment and procedures to measure distances, elevations, angles, and perform complete surveys. Computer Aided Design (CAD) laboratory for basic engineering drafting.

CEG 3011. Soil Mechanics (3). Pre- or corequisite: EGN 3331 (C- or better). This course covers physical, index, hydraulic and mechanical properties of soils. Topics include classification, compaction, stress distribution, permeability and seepage, consolidation settlement, and shear strength of soil.

CEG 4111. Foundation Engineering (3). Prerequisite: CEG 3011. This course covers the design of spread footing, pile and caisson foundations, as well as retaining and waterfront structures. The course offers an investigation of slope stability and a choice between alternative methods of foundation design.

CEG 4701. Environmental Geotechnics (3). Prerequisite: CEG 3011. This course covers the geotechnical aspects of waste containment and storage. Topics include aspects of design, construction, and performance of earthen structures for storing or disposing waste of remediation contaminated sites.

CEG 4801. Geotechnical Design (3). Prerequisite: CEG 3011. Pre- or corequisite: CGN 3508L.This course covers geotechnical investigation, analysis, and design of different geotechnical structures, including earth retaining structures, slopes and embankments, earthwork with geosynthetics, as well as shallow foundations.

CES 3100. Structural Analysis (4). Prerequisite: EGM 3512. Corequisites: EGN 3331 and either MAP 2302 or MAP 3305. This course covers loads, load paths, as well as advanced topics on shear and bending moment, including frames and superposition. Additional topics include influence lines, deflection of determinate structures, as well as indeterminate analysis methods including flexibility, slope-deflection, moment distribution, and stiffness methods.

CES 4101. Advanced Structural Analysis (3). Prerequisites: CES 3100 and EGN 3331. This course covers matrix algebra review, direct stiffness method for truss analysis, computer applications, statically indeterminate structures, slope-deflection and moment distribution methods, as well as computer modeling and analysis of structures using commercial FE codes.

CES 4605. Steel Design (3). Prerequisites: CES 3100 and EGN 3331. Pre- or corequisite: CGN 3508L. This course covers the design of tension, compression, and flexural steel members. The course also covers the design of bolted and welded connections for steel members, according to AISC specifications.

CES 4702. Concrete Design (3). Prerequisites: CES 3100 and EGN 3331. Pre- or corequisite: CGN 3508L. This course covers the design of reinforced concrete structures using current ACI specifications and building codes. Topics include flexural design of reinforced concrete beams, flanged beams, and one-way slabs. The course also presents column design, shear reinforcement design, bond and anchorage, and control of deflections and cracks.

CES 4711. Prestressed Concrete (3). Prerequisites: CES 3100 and EGN 3331. Pre- or corequisite: CGN 3508L. This course covers the behavior and design of prestressed concrete structures. Topics include the design of prestressed concrete beams for flexure and shear, the design of slabs, prestressing losses, serviceability of prestressed concrete members, and precast members.

CES 4800. Timber Design (3). Prerequisites: CES 3100 and EGN 3331. Pre- or corequisite: CGN 3508L. This course covers the design of basic timber structures including beams, columns, walls, and diaphragms – all using NDS specifications.

CES 4830. Masonry Design (3). Prerequisites: CES 3100 and EGN 3331. Pre- or corequisite: CGN 3508L. This course covers the design of basic reinforced masonry structures including walls, columns, and foundations. SBC and code applications are used.

CGN 2327L. Civil Engineering Graphic Lab (1). Prerequisite: EGN 2123. This course is the lab section of the Computer Graphics for Engineers general course. This lab provides hands-on experience in utilizing the latest version of AutoCAD and MicroStation for technical drawing typical of the design projects in civil and environmental engineering.

CGN 3145. Blending STEM and Public Policy (3). This course is thematically driven with respect to the intersection of STEM and social sciences pertaining to sustainability within the themes of: (1) food, (2) water, (3) energy, and (4) climate change. Within each area, students are introduced to core theoretical concepts, historical and contemporary issues, public policy examples, institutions, personalities, geographies, governmental and nongovernmental actors, and communities.

CGN 3508L. Civil Engineering Materials Laboratory (1). Prerequisite: EGN 3331. Pre- or corequisite: CEG 3011 or CCE 3101. This course is a study of the principal construction materials used in civil engineering practice (soils, concrete, timber, steel, etc.) with special attention to measuring mechanical properties through laboratory testing according to ASTM standards. Hands-on experience in conducting tests, including preparation and instrumentation of test specimens, test execution, data acquisition, and interpretation of test results using statistical analysis.

CGN 4800. Pre-senior Design and Professional Issues (2). Prerequisite: Senior standing. Pre- or corequisite: CEG 2202L. This course covers issues relevant to the design and construction of engineering projects; professional ethics; project planning and scheduling; design under engineering and societal constraints; importance of licensure and continuing education; as well as oral and written communication issues. Inter- or multidisciplinary teams prepare formal proposals addressing engineering challenges; the full design of these proposals is completed during the following semester in the CGN 4802, Senior Design Project course.

CGN 4802. Senior Design Project (3). Prerequisites: CGN 4800 and in last full semester of CEE program. This course is a capstone senior-level design course integrating the knowledge and skills gained in undergraduate studies in civil and environmental engineering. The course involves the completion of a team-based interdisciplinary design project covering several sub-disciplines in civil or environmental engineering. Industry and professional participation.

CGN 4906r. Honors Work in Civil and Environmental Engineering (1–6). Prerequisite: Admission to the honors program. This course is for faculty-directed independent research conducted by students in the honors program. Research is conducted on a topic agreed upon by the student and a faculty mentor and relevant to civil and/or environmental engineering. Variable credit is given consistent with the nature and scope of the research project to be conducted. May be repeated to a maximum of nine semester hours.

CGN 4930r. Special Topics (1–3). Prerequisites vary. This course covers topics in civil and environmental engineering, with an emphasis on recent developments. Topics and credit may vary. May be repeated to a maximum of twelve semester hours. May be repeated within the same term.

CWR 3200L. Environmental and Hydraulic Engineering Laboratory (1). Pre- or corequisite: EES 3040 or CWR 3201. This course is a hands-on introduction to environmental and hydraulic engineering topics. Physical experiments that demonstrate fundamental concepts such as hydrostatics, pipe flow, open channel flow, water quality, and water treatment processes are performed.

CWR 3201. Hydraulics (3). Prerequisite: EGM 3512 (C- or better). This course covers fundamental concepts of fluid properties, hydrostatics, kinematics, ideal flow viscous effects, transport phenomena; drag, laminar, and turbulent flow in pipes and channels; and dimensional analysis.

CWR 4101. Engineering Hydrology (3). Prerequisites: CWR 3201 and CWR 3200L. This course covers the processes of the hydrologic cycle, hydrologic analyses for the planning and design of water management systems, and the use of application program packages.

CWR 4120. Groundwater Hydrology (3). Prerequisites: CWR 3201 and EES 3040. This course examines the fundamentals of groundwater flow and contaminant transport. Topics include: Darcy's law, flow nets, mass conservation, heterogeneity and anisotropy, storage properties, 3-D equation of groundwater flow, regional circulation, unsaturated flow, recharge, stream-aquifer interaction, well hydraulics, slug test analyses, and contaminant transport processes.

CWR 4202. Hydraulic Engineering I (3). Prerequisites: CWR 3201 and CWR 3200L. This course covers principles of hydrology and hydraulics as they apply to the design of water supply, urban drainage, flood control, and hydraulic energy-conversion systems. Students use computer-aided design to devise hydraulics systems.

CWR 4203. Hydraulic Engineering II (3). Prerequisite: CWR 3201. This course covers methods for analyzing a broad range of unsteady flow conditions and for designing facilities to cope with resulting problems. Based on these methods, students learn to apply computer programs to practical water distribution and open-channel systems.

CWR 4540. Water Resources Engineering (3). Prerequisite: CWR 3201. This course offers a systems approach to complex water resources problems as well as a systems analysis of water resources operations, design, and planning.

CWR 4822. Coastal and Estuarine Hydraulics (3). Prerequisites: CWR 3201 and MAC 2313. This course covers coastal hydraulic principles and waves in estuaries and coastal oceans, wave properties and wave forces on coastal structures, tidal motions, mixing and transport in estuaries, and coastal -engineering analysis.

EES 3040. Introduction to Environmental Engineering (3). Prerequisites: CHM 1045, CHM 1045L, MAC 2311, and PHY 2048C. This course is a broad introduction to environmental engineering topics. Includes fundamental concepts in mass balance, water quality, water and wastewater treatment, air quality, and solid/hazardous waste management, with considerations to environmental and societal impacts, as well as technical limitations. This course serves as the foundation for all other environmental engineering courses.

EGM 3512. Engineering Mechanics (4). Prerequisites: MAC 2312 and PHY 2048. Corequisite: MAC 2313. This course covers statics and dynamics of particles and rigid bodies. Topics include free-body diagrams, couples, resultants, equilibrium of particles and rigid bodies in two and three dimensions, and forces in trusses, frames, and machines. Other topics include centroids, centers of mass, internal shear forces and bending moments in beams, shear and moment diagrams, friction, area moments of inertia, parallel axis theorem, work/energy, as well as impulse and momentum methods.

EGN 3331. Strength of Materials (3). Prerequisite: EGM 3512. This course covers axial, torsional, and flexural stresses and strains, as well as normal and shear stress. Topics include Mohr's circle, transformation of stress, safety factors, and engineering applications.

EGN 4460. Applied Simulation Modeling of Transportation Systems (3). This course is an overview of simulation as a modeling approach, analysis of complex transportation systems using simulation, evaluation of distribution/transportation processes, discrete/continuous/hybrid simulation, disruptive simulation, development of custom simulation logics, programming within simulation, scenario analysis automation.

EGN 4906r. Directed Individual Study (1–3). Prerequisites: EES 3040 and EES 3040L. Corequisite: CWR 4202. This course is directed special project/research in an area of civil engineering science or design not covered in the curriculum. May be repeated to a maximum of three semester hours.

ENV 4001. Environmental Engineering (3). Prerequisites: CWR 3200L, CWR 3201, and EES 3040. This course covers the design of water and wastewater treatment plants, wastewater collection systems, air and water pollution control, as well as solid waste management and contemporary environmental issues.

ENV 4022. Remediation Engineering (3). Prerequisite: ENV 4001. This course reviews various innovative remediation technologies used for cleanup of contaminated soil and groundwater at a site such as air sparging, soil vapor extraction, reactive walls, reactive zones, stabilization technologies, as well as hydraulic and pneumatic fracturing pump-and-treat systems.

ENV 4031. Applied Environmental Engineering Microbiology (3). Prerequisite: ENV 4001. This course surveys environmentally important microbes and their roles in the environmental restoration processes. Major topics include basics of microbiology, stoichiometry and bacterial energetics; bioremediation and other environmental microbiology applications; as well as detoxification of hazardous chemicals.

ENV 4041. Environmental Systems Analysis (3). Prerequisites: CWR 3200L, EES 3040, and either MAP 3305 or MAP 2302. This course covers systems analysis techniques applied to the solution of environmental problems, with particular emphasis on linear and dynamic programming.

ENV 4053. Chemical Fate and Transport in the Environment (3). Prerequisites: CWR 3201, EES 3040, and either MAP 3305 or MAP 2302. This course covers the processes of pollutant transport and transformation in and between air, water, and soil or sediments. Topics include advection, dispersion, diffusion, sorption, degradation, and phase-change processes.

ENV 4341. Solid and Hazardous Waste Engineering (3). Prerequisites: CWR 3200L and EES 3040. This course covers definitions and characteristics of solid and hazardous wastes. Topics include history, growth, and magnitude of the problem; legislative, regulatory, and technical aspects of waste generation, storage, collection, transportation, processing, transformation, and disposal; design of waste minimization and recycling programs; and case studies of waste management.

ENV 4405. Water Reuse Engineering (3). Prerequisites: CWR 3200L and EES 3040. This course covers sources of water for reuse, treatment processes and systems, monitoring and control instrumentation, health and social aspects, and design of facilities/systems.

ENV 4417. Applied Environmental Engineering Chemistry (3). Pre- or corequisite: ENV 4001. This course covers applications of fundamental principles from general, organic and biological chemistry, to major environmental engineering processes. Emphasis is placed on the chemistry of water treatment.

ENV 4500. Environmental Unit Processes and Operations (3). Pre- or corequisite: ENV 4001. This course covers the operational and design features of the physical, chemical, thermal, and biological treatments used in engineering for water and wastewater treatment and the management of solid and hazardous waste.

ENV 4561. Design of Water Quality Management Facilities (3). Prerequisite: ENV 4001. This course covers analysis of operations, processes, and systems used in the design of facilities for maintaining water supply quality, wastewater control, and aquatic pollution control. Design of small and decentralized wastewater management systems.

ENV 4611. Environmental Impact Analysis (3). Prerequisites: CWR 3200L and EES 3040. This course covers topics such as analysis of various measures of environmental quality, impact of human activity on water, land, and air resources, and benefit-cost analysis in environmental-impact assessment.

TTE 3004. Transportation Engineering (3). Prerequisites: CEG 2202, CEG 2202L, and STA 2122 or equivalent. This course is an introductory study of transportation engineering in the United States with special emphasis on highway and traffic engineering, planning and design, construction, operation, management, and safety.

TTE 4201. Traffic Engineering (3). Prerequisite: TTE 3004. This course covers nature, characteristics, and theories of traffic problems. Topics include traffic survey procedures, origin-destination studies, as well as an introduction to theory and design of automatic control of traffic systems.

TTE 4250. Traffic Operations (3). Prerequisite: TTE 3004. This course covers operation of transportation systems, monitoring, regulation, and control traffic.

TTE 4774. Freight Terminals and Distribution Facilities (2). Prerequisite: Instructor permission. This course covers a general overview of passenger and freight transport, an overview of operations within different types of freight transportation terminals: marine terminals (container, dry bulk, liquid bulk), cross-docking facilities, warehouses, rail terminals, freight airport terminals, and other freight transportation facilities. The course analyzes decision problems within freight terminals, operations optimization, maximization of the terminal throughput and associated monetary benefits. Students discuss future needs of freight transportation.

TTE 4804. Highway Geometric Design (3). Prerequisite: TTE 3004. This course covers principles and procedures for the geometric design of highways and streets, consideration of traffic, land use, and aesthetic factors.

TTE 4830. Hot Mix Asphalt Mixture Design (3). Prerequisite: CCE 3101. Pre- or corequisite: CGN 3508L. This course covers aggregate properties and tests, tests of asphalt and asphalt concrete mixes, fundamental engineering characteristics of hot-mix asphalt concrete, mix design methods for asphalt concrete, as well as Superpave-mix design methodology and production and placement of hot-mix asphalt.

Graduate Courses

CCE 5035. Construction Planning and Scheduling (3).
CCE 5036. Project Controls in Construction (3).
CCE 5212. Sustainable and Green Construction (3).
CCE 5510. Computer Applications in Construction (3).
CEG 5015. Advanced Soil Mechanics (3).
CEG 5115. Foundation Engineering (3).
CEG 5127. Highway and Airport Pavement Design (3).
CEG 5515. Earth Retaining Systems and Slope Design (3).
CEG 5705. Environmental Geotechnics (3).
CES 5105. Advanced Mechanics of Materials (3).
CES 5106r. Advanced Structural Analysis (3).
CES 5144. Matrix Methods for Structural Analysis (3).
CES 5209. Structural Dynamics (3).
CES 5218. Fundamentals of Structural Stability Theory (3).
CES 5325. Bridge Engineering (3).
CES 5585. Wind Engineering (3).
CES 5606. Advanced Steel Design (3).
CES 5706. Advanced Reinforced Concrete Design (3).
CES 5715. Prestressed Concrete (3).
CES 5801. Structural Design of Wood Structures (3).
CES 5845. Composites in Civil Engineering (3).
CES 6116. Finite Elements in Structures (3).
CGN 5310. Engineering Data Systems (3).
CGN 5825. Site Development (3).
CGN 5905r. Directed Individual Study (1–6). (S/U grade only.)
CGN 5910r. Supervised Research (1–5). (S/U grade only.)
CGN 5930r. Special Topics (1–6).
CGN 5935. Civil Engineering Seminar (0). (S/U grade only.)
CGN 5971r. Master's Thesis Research (1–12). (S/U grade only).
CGN 6942. Supervised Teaching (3). (S/U grade only.)
CWR 5125. Groundwater Hydrology (3).
CWR 5205. Hydraulic Engineering II (3).
CWR 5635. Water Resources Planning and Management (3).
CWR 5824. Coastal and Estuarine Hydraulics (3).
EGN 5458. Statistical Applications for Engineers (3).
EGN 5465. Applied Simulation Modeling of Transportation Systems (3).
EGN 5480. Metaheuristics and Hybrid Algorithms (3).
EGN 5950. Research Methods in Engineering (3).
ENV 5028. Remediation Engineering (3).
ENV 5030. Applied Environmental Engineering Microbiology (3).
ENV 5045. Environmental Systems Analysis (3).
ENV 5055. Chemical Fate and Transport in the Environment (3).
ENV 5076. Environmental Law for Engineers and Scientists (3).
ENV 5105. Air Pollution Control (3).
ENV 5407. Water Reuse Engineering (3).
ENV 5419. Applied Environmental Engineering Chemistry (3).
ENV 5504. Environmental Engineering Processes and Operations (3).
ENV 5565. Design of Water Quality Management Facilities (3).
ENV 5615. Environmental Impact Analysis (3).
ENV 5617. Environmental Engineering Sustainability (3).
TTE 5074. Freight Terminals and Distribution Facilities (3).
TTE 5205. Traffic Engineering (3).
TTE 5206. Advanced Traffic Flow Analysis (3).
TTE 5256. Traffic Operations (3).
TTE 5270. Intelligent Transportation Systems (3).
TTE 5305. Transportation Systems Analysis (3).
TTE 5501. Transportation Economics (3).
TTE 5805. Highway Geometric Design (3).

For listings relating to graduate coursework for thesis, dissertation, master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of CLASSICS

College of Arts and Sciences

Website: *http://classics.fsu.edu/*
Interim Chair and Leon Golden Professor: Marincola; **M. Lynette Thompson Professor:** de Grummond; **Professors:** Cairns, Fulkerson, Pullen; **Associate Professors:** Clark, De Giorgi, Luke, Pfaff, Sickinger, Slaveva-Griffin, Stover; **Assistant Professors:** Lewis, Murphy, Weiberg; **Associate Teaching Professor:** Branscome; **Assistant Teaching Professor:** Furman; **Professors Emeriti:** Golden, Plescia

The influence of the art, languages, literatures, and cultures of the Greco-Roman world pervades every western and many non-western societies. Modern America is no exception. A meaningful appreciation of our classical past is vital both for understanding the impressive continuity of western institutions and values as well as for recognizing how recent innovations and transformations of received assumptions have rendered aspects of the classical world alien and sometimes exceptionable. The classics are crucial both to the perpetuation and to the critique of the western liberal arts education.

The Department of Classics is committed to advancing our knowledge and critical appreciation of the ancient Mediterranean world through excellence in research and in teaching. The department seeks to create an atmosphere that fosters traditional scholarly approaches to the classical past at the same time as it welcomes and encourages innovative methods and perspectives. The department values the interdisciplinary nature of the classics and strives to achieve an integrated understanding of the ancient world that includes a full appreciation of its history, literature, art, and archaeology. Students are encouraged to view the classics within the context of the traditional humanities as well as in terms of the contemporary criticism of received cultural canons.

All courses in classics emphasize critical thinking, careful analysis, and effective speaking and writing skills. Most classics majors find that their broad liberal arts background is excellent preparation for pursuing careers in the learned professions, such as government, journalism, or law. Some who major in classics will go on to academic careers as philologists or archaeologists. Others will become teachers in schools or specialists in museum work.

In addition to offering instruction to majors, the department participates in the University's *Liberal Studies for the 21st Century Program* and offers innovative courses that satisfy the University's diversity requirement. Courses in beginning Greek or Latin can be used to fulfill the language requirement of the College of Arts and Sciences.

The faculty in classics is distinguished in teaching and research. Several members of the faculty have received University and national teaching awards. Individual faculty members have also won numerous competitive grants. The department boasts special strengths in ancient literary criticism, the archaeology of Greece and Italy, the political and social history of Athens and of Rome, Greek and Roman religion, and ancient sexuality and gender studies. Several faculty members direct archaeological projects in Greece and Italy, and students are active participants in these.

Majors and elective students alike will find many intellectual opportunities in the department. There are active chapters of Eta Sigma Phi (the classics honor society) and the Senior Classical League, and a vigorous Student Archaeology Club. Each year the department hosts several distinguished guest speakers. Every semester the department also hosts a major conference. Recent topics have included the following: The Colonial Landscape in Republican Italy; Inscribed in Clay: Theorizing the Link between Pottery and History; and Narrating Lives: Biography and Identity in Antiquity.

Students interested in the classics are encouraged to discuss their future plans with the undergraduate advisor. Many students will find that their needs are best accommodated by the department's very flexible program in classical civilization (see below). Students who intend to pursue a career in teaching Latin or museum work, and students who intend to pursue postgraduate research in ancient history, classical archaeology, or philology will need to enter more specific programs of study. There is also a joint major in classics and religion.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in classics satisfy this requirement by earning a grade of "C–" or higher in any course designated as meeting the Computer Competency Requirement.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Classics and Classical Language

XXX XXXX: coursework in classics for a total of six to twelve credit hours and a demonstration of proficiency of a classics world language by testing or completion through the intermediate level. For example, the intermediate level for Latin is LAT X220 or equivalent.

Greek, Classical

XXX XXXX: coursework in Greek for a total of six to twelve credit hours or demonstrated proficiency of the language by testing or completion through the intermediate level. The intermediate level is GRE X200 or equivalent.

Latin

XXX XXXX: coursework in Latin for a total of six to twelve credit hours or demonstrated proficiency of the language by testing or completion through the intermediate level.

Requirements for Majors in Classics

Students should review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*. No course for which a student receives a grade below "C" may be counted toward satisfaction of major requirements. In addition, courses used to satisfy the college world language requirement may not be counted toward satisfaction of any major requirements. Interested students should consult with the undergraduate advisor as early as possible to choose a course of study best suited to their needs and goals.

All students are required to complete an exit survey for both the department and the College of Arts and Sciences during the term in which they graduate.

Latin

The major in Latin requires thirty hours of coursework, to include:

- fifteen hours of courses in Latin above the 2000-level, with at least six hours at the 4000 level
- three hours of coursework in Roman Archaeology (ARH 3150)
- three hours of coursework hours in Roman History (CLA 3440)
- six hours of elective Classics coursework above the 2000 level
- three hours in CLA 4935, Seminar in Classical Civilization

Greek

The major in Greek requires thirty hours of coursework, to include:

- twelve hours of courses in Greek above the 2000 level, with at least six at the 4000 level
- three hours in Greek Archaeology (ARH 3130)
- three hours in Greek History (CLA 3430)
- nine hours of elective Classics courses above the 2000 level
- three hours in the Classics Seminar, CLA 4935

Latin and Greek

The major in Latin and Greek requires thirty hours of coursework, to include:

- eighteen hours of courses in Latin and Greek above the 2000 level, including at least six hours in each language, and at least six hours at the 4000 level
- three hours in Greek or Roman Archaeology (ARH 3130 or 3150)
- three hours in Greek or Roman History (CLA 3430 or 3440)
- three hours of elective courses in Classics above 2000 level
- three hours in CLA 4935, Seminar in Classical Civilization

Classical Civilization

The major in Classical Civilization requires thirty hours of coursework, to include:

- three hours in Classical Archaeology, either ARH 3130 or 3150
- three hours in Ancient History, either CLA 3430 or 3440
- three hours in Classical Mythology, either CLT 3370 or 3378
- eighteen additional hours of Classics courses, twelve of which must be at the 4000 level
- three hours in CLA 4935, Seminar in Classical Civilization

Classical Archaeology

The major in Classical Archaeology requires thirty hours of coursework, to include:

- six hours in ARH 3130 and 3150
- nine hours of advanced classical archaeology courses chosen from ARH 4110, 4118, 4120, 4131, 4151, 4154, 4173 and CLA 4151
- twelve hours in Greek or Latin, normally LAT or GRE 1120, 1121, 2220 (these hours cannot be used to satisfy the world language requirement of the College of Arts and Sciences)
- three hours in CLA 4935, Seminar in Classical Civilization

Students are also encouraged to participate in archaeological fieldwork, and to study at the University's study center in Florence.

Joint Major in Classics and Religion

The departments of classics and religion cooperate in a joint major designed for students with a special interest in religion and culture in the ancient world. The joint major in classics and religion requires (in addition to other college requirements) twenty-seven semester hours in classics and eighteen semester hours in religion for a total of forty-five hours. At least nine semester hours at the 3000 or 4000 level in classics courses with prefixes ARH, CLA, or CLT, or ASH 3200, EUH 4401, EUH 4408, EUH 4412, or EUH 4413 are required. No more than eighteen semester hours of Greek or Latin may count toward the major and courses used to fulfill the College of Arts and Sciences language requirement may not be counted toward the major. Of the eighteen semester hours in religion, at least six and no more than twelve semester hours must be in the area of religions of western antiquity. Classics courses in which the student receives a grade below "C" will not be counted toward the major. For the joint major in religion and classics, please contact the undergraduate director in the department of religion.

Students choosing the joint major in classics and religion do not need to complete a minor.

Honors in the Major

The Department of Classics offers a program in honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin* and consult with the undergraduate advisor.

Requirements for a Minor in Classics

A minor requires a minimum of twelve semester hours of coursework in classical civilization, Greek, or Latin. The minor in classical civilization requires no knowledge of Greek or Latin and may consist of any four courses listed under departmental offerings in classical civilization and literature; however, with the approval of the department, appropriate courses in Greek and Latin may be included in this program. For a minor in Greek or Latin, the sequence may begin at the 1000 level, provided this does not duplicate the world language requirements for the baccalaureate degree, or at any appropriate higher level.

Definition of Prefixes

ARH—Art History
ASH—Asian History
CLA—Classical and Ancient Studies
CLT—Classical Culture in Translation or Translation Skills
EUH—European History
FLE—Foreign Language Education
GRE—Classical Greek (Language Study)
GRW—Classical Greek Literature (Writings)
IDS—Interdisciplinary Studies
LAT—Latin (Language Study)
LNW—Latin Literature (Writings)

Undergraduate Courses

ARH 2090. Great Discoveries in World Archaeology (3). This course investigates the meaning and the role of archaeology in shaping our past and present lives. In particular, we ask questions about the purpose, the means, and the agencies behind the excavation process, and thus touch upon the theoretical underpinnings of archaeology as a science. The course is a comprehensive survey that begins with the basics of human evolution and covers the history and material culture of key ancient civilizations, including those that populated the Mesopotamian and Mediterranean basins.

ARH 3130. Survey of Greek Art and Archaeology (3). This course reviews the major accomplishments in Greek art from early times through the Hellenistic period using a survey of principal monuments, works, and archaeological evidence.

ARH 3150. Art and Archaeology of Ancient Italy (3). This course is a survey of Italian art and archaeology including early Italy, the Etruscans, and Rome with reference to the major monuments, works, and archaeological evidence.

ARH 4110. Art and Archaeology of the Bronze Age in the Aegean (3). This course studies the major archaeological evidence related to the Bronze Age in Crete and Greece; the major sites, monuments, and artistic works.

ARH 4118. Archaeology of Ancient Egypt (3). This course surveys the archaeology and art of ancient Egypt from the Pre-dynastic to the Ptolemaic and Roman periods. An emphasis is placed on the art, architecture, and culture of the Old and New Kingdoms.

ARH 4120. Etruscan Art and Archaeology (3). This course is a study of Etruscan culture, art, and archaeology.

ARH 4131. Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3). This course surveys the accomplishments of classical Greek art through an examination of the monuments, works, and archaeological evidence.

ARH 4151. Art and Archaeology of the Early Roman Empire (3). This course examines Roman art and archaeology from Augustus through the Antonines with a survey of the major artistic accomplishments and the archaeological remains.

ARH 4154. Archaeology of the Late Roman Empire (3). This course comprises a study of Roman art and archaeology from the second to the sixth century CE with emphasis on important sites and monuments.

ARH 4173r. Studies in Classical Archaeology and Art (3–9). This course explores studies in specific aspects of the archaeology and art of Greece and Italy. May be repeated to a maximum of nine semester hours.

ARH 4932r. Tutorial in Classical Archaeology (1–3). Prerequisites: ARH 3130, ARH 3150, and instructor permission. This course uses readings and discussions within a small group of advanced undergraduates and discusses specific topics or research problems in classical archaeology. May be repeated to a maximum of six semester hours.

ASH 3200. History of the Ancient Near East (3). This course is a survey of the Near East—Anatolia, Mesopotamia, Egypt, the Holy Land—in the ancient period.

ASH 4203. Ancient Persia (3). This course surveys the history of the Achaemenid Persian Empire from 550–330 BCE, from the empire's founding by Cyrus II to the death of the last Achaemenid king, Darius III. The focus of the course throughout will be on what the Achaemenid Persians themselves thought about their empire. Thus, readings for the course will be primarily grounded in Achaemenid sources (such as inscriptions, seals, coins, and archaeological sites and monuments), although some attention will also be paid to Greek literary sources (such as the historians Herodotus and Xenophon and the biographer Plutarch).

CLA 2010. Peoples of the Roman World (3). This introductory level course engages with the Roman world from the point of view of the people who lived there. Students study the different kinds of people who inhabited the Roman Empire, focusing on its multiethnic and diverse populaces, and on the ways in which, as in a modern city, rather different groups may have come into contact with one another.

CLA 2110. Debates About the Past: Greek Civilization, History and Culture (3). This course is an introduction to different aspects of Greek, especially Athenian, culture, society, history, and literature from the archaic age (8th-6th centuries BCE) through the classical era (5th-4th centuries BCE) and beyond. The goal is to understand the Greeks through their words and the views of modern scholars, which students encounter in their assigned texts, translations of primary sources, and through lectures.

CLA 2123. Debates About the Past: Roman Civilization, History and Culture (3). This course is an introduction to different aspects of Roman culture, society, history, and literature from the period of the monarchy (roughly 8th century BCE) through the Late Empire (5th century CE). The goal is to understand the Romans through their words and the views of modern scholars, which students encounter in their assigned texts, translations of primary sources, and through lectures. Students also sharpen their oral competency skills through participation in debates in a variety of roles.

CLA 2810. Ancient Science for Non-Science Majors (3). This course introduces students to the history of modern science in the ancient Near East, the Greco-Roman world, the world of Late Antiquity and the Early Middle Ages.

CLA 3012. Homosexuality in Antiquity (3). This course combines methods of social history and literary criticism to examine attitudes toward homosexuality in Greek and Roman culture and the influence of the Greek ideal in later literary and artistic culture.

CLA 3430. History of Ancient Greece (3). This course surveys the history of ancient Greece from the Bronze Age through the Hellenistic period, with a focus on political, social, and economic developments.

CLA 3440. History of Ancient Rome (3). This course surveys the history of ancient Rome from the Iron Age through Late Antiquity. Emphasis is on political, social, and economic developments.

CLA 3500. Sports in Antiquity: Olympians, Gladiators, and Superstars (3). This course introduces students to the various athletic events of Greco-Roman antiquity and the festival games in which ancient athletes competed. To explore the subject, students are exposed to a wide variety of evidence, including inscriptions, literary sources, architectural remains, vase-paintings, sculptures, and other types of archaeological finds.

CLA 3501. Gender and Society in Ancient Greece (3). This course examines the role and status of women in ancient Greek society, as depicted in its literature, art, law, and religion.

CLA 3502. Women, Children, and Slaves in Ancient Rome: The Roman Family (3). This course examines the Roman family in its various facets. Its focus will not be only on the nuclear family but also on the broader concept of family, which includes slaves and dependents.

CLA 4151. Pompeii (3). This course provides a study of the archaeology of Pompeii and neighboring towns from the seventh century BCE to the first century CE.

CLA 4437r. Studies in Greek History (3). This course focuses on specified periods of Greek history, whether Archaic, Classical, or Hellenistic. May be repeated to a maximum of six semester hours.

CLA 4447r. Studies in Roman History (3). This course focuses on specified periods of Roman history in the Republic or Empire. May be repeated to a maximum of six semester hours.

CLA 4780r. Classical Archaeology: Fieldwork (1–6). This fieldwork course affords students the experience of excavation through an approved archaeological field school or project. May be repeated to a maximum of twelve (12) credit hours; repeatable within the same term.

CLA 4909r. Honors Work (1–6). Up to twelve semester hours may be taken in honors work. May be repeated to a maximum of nine semester hours.

CLA 4930r. Special Topics in Classics (3–9). This course offers studies in specific aspects of Greco-Roman literature and culture. May be repeated to a maximum of nine semester hours.

CLA 4935r. Seminar in Classical Civilization (3–6). Prerequisite: Nine semester hours of study in classical civilization or instructor permission. This course covers special topics in classical culture presented around a seminar format. May be repeated to a maximum of six semester hours.

CLT 2049. Medical Terminology (3). This course introduces students to the medical and technical vocabulary based on Latin and Greek elements in medical Latin and English.

CLT 3370. Classical Mythology (3). This course is a survey of Greco-Roman myth and legend, readings from illustrative ancient authors in English translation, approaches to the study of ancient myth.

CLT 3378. Ancient Mythology, East and West (3). This course provides students with an introduction to the mythological traditions from a diverse group of ancient cultures, including those of Greece and Rome, the Near East, Northern Europe, India, China, Africa, and the Americas.

CLT 3510. The Ancient World in Film (3). This course examines popular representations of Greek and Roman culture in modern film and cinema.

CLT 4291. Greek Tragedy (3). This course is an intensive study of the tragedies of Aeschylus, Sophocles, and Euripides.

CLT 4340. Greek and Roman Epic (3). This course is a study of the principal epics of the classical world in English translation.

CLT 4372r. Studies in Ancient Mythology (3). This course covers specific topics in the study of ancient myth and its interpretation. May be repeated to a maximum of six semester hours.

CLT 4532. The Return Home in Greek Myth (3). In this course, students examine different versions of this story pattern, beginning with Odysseus' return home from the Trojan War in Homer's Odyssey. Suitable for anyone interested in literature, psychology, theater, history, war and combat trauma, or gender studies.

CLT 4905r. Directed Individual Study (1–4). May be repeated to a maximum of nine semester hours.

EUH 4401. Classical Athens and Sparta (3). This course examines the history of Greece from the beginning to Alexander the Great. Emphasis on the social and political structures of Sparta and Athens.

EUH 4408. The Age of Alexander the Great (3). This course is a study of the Greek world from the death of Socrates (399 BC) to the Roman conquest (146 BC, the sack of Corinth by Mummius).

EUH 4412. The Roman Republic (3). This course is a study of the history of Rome from its foundation (traditionally 753 BC) to the fall of the Roman Republic (31 BC, The Battle of Actium).

EUH 4413. The Roman Empire (3). This course focuses on the Roman Empire from Augustus to Constantine. Emphasis on the evolution from the principate of the early empire to the monarchy of the late empire.

GRE 1120, 1121. Beginning Greek I, II (4, 4). This course is an introduction to the basic grammar and syntax of classical Greek. Meets the foreign language requirement for the BA degree. No language laboratory required.

GRE 2220. Introduction to Greek Literature (4). This course focuses on the translation and commentary on selected Greek readings. Meets the foreign language requirement for the BA degree. No language laboratory required.

GRW 3104r. Readings in Greek Literature (3). This course focuses on the translation, commentary, and interpretation of selected Greek works. May be repeated to a maximum of six semester hours with change of content.

GRW 3250r. New Testament Greek (3). Prerequisite: GRE 2220 or completion of twelve-hour foreign language sequence in Greek. This course offers an introduction to reading the New Testament in Greek; it involves a comparison of New Testament Greek to Attic Greek grammar, as well as an introduction to New Testament scholarship. May be repeated to a maximum of six semester hours provided texts change.

GRW 4210r. Greek Prose Writers (3). This course focuses on the translation, commentary, and interpretation of readings from Greek prose writers. May be repeated to a maximum of six semester hours.

GRW 4301r. Greek Drama (3). This course focuses on the translation, commentary, and interpretation of selected Greek plays. May be repeated to a maximum of six semester hours.

GRW 4340r. Greek Poetry (3). This course focuses on the translation, commentary, and interpretation of readings from selected Greek poets. May be repeated to a maximum of six semester hours as topics vary.

GRW 4500. Greek Philosophical Writings (4). This course focuses on the translation, commentary, and interpretation of readings from the Greek philosophers or religious texts.

GRW 4905r. Directed Individual Study (1–4). May be repeated to a maximum of nine semester hours.

IDS 2410. Citizenship and Debate: Models from the Ancient World (3). This course explores current controversial issues in American society through their counterparts in ancient Greece and Rome. Students extract selections of debates from great works of Classical literature, explore the strengths and weaknesses of opposing arguments, and engage with the parallels that have ensnared political culture in their own day. Throughout, students are concerned with the question of whether political conflict is integral, or an obstacle, to the embodiment of democratic principles.

IDS 2417. Defining Moments and Identities: From the Persian Wars to September 11th (3). This course offers a comparison of the ways in which societies respond to defining, and sometimes traumatic, events in their histories. Using the Persian Wars of the 5th c. BCE, in which a small and often disunited group of Greeks successfully fought off the invasions of the powerful Persian Empire, as well as the attacks on the United States on September 11th, 2001 as the major touchstones for our investigations, students look at some of the important ways in which societies remember, memorialize, and try to come to grips with major events in their history.

IDS 3140. Technologies of Memory from Ancient Greece to Today (3). This course seeks to answer questions, such as "How do we know the past?" and "How might technology help or hinder us in knowing the past better?", by studying the changing and diverse roles of the various technologies used to record the past, "technologies of memory." Beginning with the earliest forms of writing, poetry, and ancient memory arts (mnemotechnics) and then extending to the modern day shift to computers and digital memorialization, students ask both what has been gained and what has been lost in these technological turns.

IDS 3193. Ancient Sexualities and Modern Sexual Politics (3). This course examines attitudes towards sexuality in ancient Greek and Roman culture, and the influence of Greek and Roman norms on later cultures and periods, including and especially our own; sexual identities play a large and increasing role in modern political life. Students explore a wide variety of literary, non-literary, and visual material in order to understand the dynamics of sexuality and power as they operate in the ancient and modern world.

IDS 3303. The Animal in Ancient and Modern Thought (3). This course explores human attitudes toward non-human animals in ancient and modern culture. Students read a sampling of ancient and modern literature and philosophical thought and engage with a range of themes over the course of the semester, including beliefs about animal consciousness, human-animal social relationships, the use of animals in literature and art, and the ethics of animal treatment.

IDS 3416. Ethics and Empire in the Roman World (3). This course challenges the popular stereotype of the ancient Romans as being bloodthirsty, sensual, and imperialistic, and instead focuses on their historical reality, which is much richer and far more relatable to our circumstances as members of a global community. The Romans engaged in rich ethical discussions informed by moral anecdotes, law, religion, and philosophy. As such, what can the ancient Romans, so often stereotyped as immoral and bloodthirsty, teach us about ethical living and engagement with others in a diverse global community where customs, values, and religious beliefs regularly clash?

IDS 3434. How Houses Build People: Ancient and Modern Domestic Life (3). This course explores how the form and organization of houses influenced social behavior in the past, and similarly, how houses influence our society today. The course focuses on dwellings in ancient Greece and Rome, and the modern United States. This course may include field trips to visit local historic houses.

LAT 1120, 1121. Beginning Latin I, II (4, 4). This course is an introduction to the basic grammar and syntax of classical Latin. Meets the foreign language requirement for the BA degree. No language laboratory required.

LAT 2220. Introduction to Latin Literature (4). This course focuses on the translation and commentary on selected Latin readings. Meets the foreign language requirement for the BA degree. No language laboratory required.

LNW 3211r. Readings in Latin Prose (3–6). Prerequisite: LAT 2220. This course introduces intermediate students to the translation and interpretation of standard Latin prose authors. May be repeated to a maximum of six semester hours.

LNW 3323r. Readings in Latin Poetry (3–6). Prerequisite: LAT 2220. This course introduces intermediate students to the translation and interpretation of standard Latin poets. May be repeated to a maximum of six semester hours.

LNW 4320r. Roman Lyric, Elegiac, and Pastoral Poetry (3). This course focuses on the translation, commentary, and interpretation of poetry selected from the Roman elegists, the lyric tradition, and Roman pastoral. May be repeated to a maximum of six semester hours.

LNW 4340r. Roman Epic (3). This course focuses on the translation, commentary, and interpretation of the works of Vergil or the other hexameter poets. May be repeated to a maximum of six semester hours.

LNW 4360r. Roman Satire (3). This course focuses on the translation, commentary, and interpretation of selected readings from Horace and Persius, Juvenal, Martial, Petronius, or Apuleius. May be repeated to a maximum of six semester hours.

LNW 4380r. The Roman Historians and Cicero (3). This course focuses on the translation, commentary, and interpretation of selected works from the Roman historians or Cicero's historical speeches and letters. May be repeated to a maximum of six semester hours.

LNW 4905r. Directed Individual Study (1–4). May be repeated to a maximum of nine semester hours.

LNW 4999r. Tutorial in Latin (1–3). Prerequisites: LNW 3211, LNW 3323, and instructor permission. This course includes intensive work by a small number of undergraduates on a specific topic or research problem in Latin studies. May be repeated as topics vary to a maximum of six semester hours.

Graduate Courses

ARH 5111. Art and Archaeology of the Bronze Age in the Aegean (3).
ARH 5119. Archaeology of Ancient Egypt (3).
ARH 5125. Etruscan Art and Archaeology (3).
ARH 5140. Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3).
ARH 5160. Art and Archaeology of the Early Roman Empire (3).
ARH 5161. Archaeology of the Late Roman Empire (3).
ARH 5174r. Studies in Classical Art and Archaeology (3).
ARH 5934r. Tutorial in Classical Archaeology (1–3).
ARH 6937r. Doctoral Seminar in Classical Archaeology (3).
CLA 5155. Pompeii (3).
CLA 5438r. Studies in Greek History (3).
CLA 5448r. Studies in Roman History (3).
CLA 5789r. Classical Archaeology: Fieldwork (1–6).
CLA 5799r. Seminar in Classical Archaeology (3).
CLA 5905r. Directed Individual Study (1–4). (S/U grade only.)
CLA 5910r. Supervised Research (1–3). (S/U grade only.)
CLA 5919. Master of Arts Paper (3). (S/U grade only.)
CLA 5920r. Classics Colloquium (1–3). (S/U grade only.)
CLA 5931r. Special Topics in Classics (3–9).
CLA 5936. Proseminar in Classical Studies (1). (S/U grade only.)
CLA 5940r. Supervised Teaching (0–3). (S/U grade only.)
CLA 5942r. Internship in Museum Studies (3–6).
CLA 6906r. Readings for Exams (1–12). (S/U grade only.)
CLA 6932r. Seminar in Classics (3–12).
CLA 6980r. Dissertation (1-12). (S/U grade only.)
CLT 5295r. Studies in Greek Tragedy: Aeschylus, Sophocles, and Euripides (3).
CLT 5345. Studies in Greek and Roman Epic (3).
CLT 5379r. Seminar in Ancient Mythology (3).
EUH 5407. Hellenistic Greece (3).
EUH 5417. The Roman Republic (3).
EUH 5418. The Roman Empire (3).
FLE 5810. Teaching Classics (3).
GRW 5215r. Studies in the Greek Prose Writers (3).
GRW 5305r. Studies in Greek Drama (3).
GRW 5345r. Greek Poetry (3).
GRW 5505r. Greek Philosophical Writings (3).
GRW 5908r. Directed Individual Study (1–4). (S/U grade only.)
GRW 5909r. Tutorial in Greek (1–3).
GRW 6106. Survey of Greek Literature (3).
GRW 6930r. Seminar in Greek (3).
LAT 5069. Graduate Reading Knowledge Examination (0). (S/U grade only.)
LAT 5305. Intensive Latin Review (3).
LNW 5316r. Studies in Roman Drama (3).
LNW 5325r. Roman Lyric, Elegiac, and Pastoral Poetry (3).
LNW 5345r. Studies in Roman Epic (3).
LNW 5365r. Studies in Roman Satire (3).
LNW 5385r. The Roman Historians and Cicero (3).
LNW 5908r. Directed Individual Study (1–4). (S/U grade only.)
LNW 5932r. Tutorial in Latin (1–3).
LNW 6106. Survey of Latin Literature (3).
LNW 6930r. Seminar in Latin (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

COGNITIVE SCIENCE:
see *Graduate Bulletin*

School of COMMUNICATION
Undergraduate Programs

College of Communication and Information

Website: *http://comm.cci.fsu.edu*
Director: Jennifer Proffitt; **Professors:** Adams, Arpan, Houck, McDowell, Nudd, Opel, Proffitt, Raney; **Associate Professors:** Bruker, Chapa, Clayton, Cortese, Graves, Jordan, Lee, MacNamara, Merle, Rayburn, Sypher; **Assistant Professors:** Bailey, Dale, Ferchaud, Wendorf Muhamad; **Specialized Teaching Faculty:** DuBard, Haywood, Henry, Laurents, Zeigler; **Professors Emeriti:** Heald, Korzenny, Mayo, Wotring, Young.

The School of Communication offers a degree in communication and digital media with two majors (digital media production and media/communications studies), and a degree in professional communication with two majors (advertising and public relations). These majors are organized according to various applications of communication skills and expertise in our society. This unique array of studies allows students to select a sequence of courses that directly reflects their own professional, artistic, and/or academic interests.

Each major requires a series of courses designed to meet predetermined educational and career goals. The specific goals and requirements of some areas of study are detailed in the following section entitled, "Descriptions of Emphasis Areas," and on the School website at *http://comm.cci.fsu.edu*. While some areas of emphasis are professionally oriented and others stress theory and a liberal arts education, each introduces the student to the broad range of communication theory and practice and provides the student with an understanding of the fundamental human and mediated communication processes. With few exceptions, the major requires two years to complete.

In terms of both academic criteria and extracurricular accomplishments, the students in the School of Communication are of the very highest caliber. The high quality of undergraduate students is reflected in the numerous University, state, and national scholarship and fellowship recipients. The exceptional caliber and character of communication students are also proven by their extracurricular activities. The Speech and Debate Program is considered one of the most experienced, talented squads in the nation. The program philosophy assures each student the best competitive experience possible. It emphasizes quality competition and provides the resources to help each student excel to the best of his or her abilities. Communication students are also involved in broadcasting activities, including radio station WVFS, a variety of sports-related programs as part of Seminole Productions, and broadcasts on WFSU-TV, Florida State University's PBS station. Other student activities include the Advertising Club, the student chapter of the Florida Public Relations Association, and Lambda Pi Eta, the national honor society for undergraduate communication students.

Both in and out of the classroom, the students of the School of Communication have an established track record of national recognition and achievement. The University's communication graduates can be found working in virtually every country in the world and every state in the nation. Our graduates occupy productive and prominent positions in government, law, commercial communication, media-related activities, private business interests, and education.

The School of Communication offers programs of study leading to the Bachelor of Arts (BA), Bachelor of Science (BS), Master of Arts (MA), Master of Science (MS), and Doctor of Philosophy (PhD) degrees. Consult the *Graduate Bulletin* or School website for information regarding graduate programs.

Note: Students not formally admitted to the School of Communication are prohibited from enrolling in more than eighteen semester hours of coursework in the School of Communication (SPC 1017 and SPC 2608 do not count toward this eighteen semester hour limit). Courses available to non-majors include, but are not limited to, those listed in the following section entitled, 'Requirements for a Minor in Communication.'

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in communication satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or COM 4470.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

Requirements

Admission Information

Communication is a limited-access major. Acceptance into the School of Communication and into the various areas of emphasis is highly competitive.

All students must apply separately to the University and the School of Communication. Admission to the University is not a guarantee of admission into the major and admission to the major is not a guarantee of admission to the University. Students transferring from another institution are strongly encouraged to earn an AA before matriculating at Florida State University, and they should apply for admission to the School of Communication **before** transferring to Florida State University.

Application Process

Minimum Requirements for Application:

Students applying for admission must:

1. Have an overall GPA of 3.0 or higher on all college coursework to be considered for admission to advertising, public relations, digital media production, and media/communication studies
2. Have completed CLEP and accelerated credit scores posted by time of application
3. Have all liberal studies course substitutions approved by the appropriate dean and posted by time of application
4. In addition, students must complete the following requirements by the end of the Spring semester in which they are applying:
   a. A minimum of fifty-two semester hours of college coursework accepted by Florida State University
   b. Successfully complete ENC 1101 (three hours).

Note: All coursework for eligibility must be reflected on submitted transcripts or on Spring course schedules by the application deadline.

The Application

Application information is available on the School of Communication website at *http://comm.cci.fsu.edu*.

To be considered for Summer/Fall admission, completed applications must be received by the School of Communication by the first business day in February at 5:00 p.m. Included in the application process must be copies of transcripts from all colleges and universities attended. Late applications will not be accepted.

The Review Process

A. Advertising, Public Relations, Digital Media Production

A faculty committee will review applications and supporting documents of candidates who meet the minimum requirements for application. There are three major criteria by which all undergraduate applications in the School of Communication will be assessed: GPA in context, strength of experience relevant to the field, and evidence of potential success in a relevant field. More specifically, the faculty members reviewing the applications in all areas will consider the following:

1. GPA in all college coursework
2. Record of academic success in communication and communication-related courses
3. Quality of writing in application materials
4. Well-defined goals and expectations related to the chosen field
5. Previous high school, college, or professional experiences related to the chosen field

(See School of Communication application for additional information regarding the review process.)

B. Media/Communication Studies

After meeting the minimum requirements for application (above), the GPA in all college coursework will be the sole admission criterion.

Retention Standards

The School of Communication reserves the right to discontinue enrollment of any student in the major at any time if, in the judgment of the faculty, the student does not meet the standards of the School or the major. Specifically, majors in the School of Communication must maintain an overall GPA of 3.0 on all college coursework or they may be placed on probation and may be dropped subsequently from the major.

Requirements for a Major in Communication

Different programs of study specify different graduation requirements that lead to the baccalaureate degrees in Communication. Descriptions of each program's required and elective course sequences are available on the School's website at *http://comm.cci.fsu.edu*.

The School of Communication has the following requirements for graduation. These requirements are beyond the minimum University requirements and those specified by each emphasis area: (1) meet the School's language proficiency requirement; (2) only coursework with grades of "C–" or above will count toward a student's degree in communication; and (3) completion of a minor in an academic area outside the School of Communication. Students must undergo University and School graduation checks. Students who wish to intern must make arrangements with the faculty advisor and submit School contracts the semester prior to enrollment. Internship requirements vary by program of study. Only formally admitted communication majors can register for a communication internship.

Language Proficiency Requirement

Students formally admitted into any major in the School of Communication must achieve proficiency in one language other than English prior to graduation. As a School, we define "language" in broad terms, understanding that a variety of skills are equally important to the field of communication. To that end, students may fulfill this requirement by taking courses in modern or business language. In order to fulfill the School's Business Language-Proficiency requirement, students must earn at least a "C–" in each language course. Courses may not be taken on an S/U basis.

Students may take courses in the Modern Language Proficiency requirement on an S/U basis.

The School's language proficiency requirement is more extensive than the University's foreign language admissions requirement. It is important to understand that although completion of two years of high school language courses or two semesters of post-secondary language will satisfy the University's Admissions requirement, these courses do not satisfy the School of Communication's language proficiency graduation requirements. Please consult the "Admissions" chapter of this *General Bulletin* for more information.

Modern Language Proficiency. Students may satisfy the language proficiency requirement by completing coursework through the 2000 level (2200 or equivalent course) of a classical or modern language. Students admitted prior to 2012 must earn at least a "C–" in each course; courses may not be taken on an S/U basis. For students admitted during or after 2012, language proficiency courses may be taken on an S/U basis. Native speakers of another language and other students who wish to demonstrate proficiency by means other than coursework should consult the Department of Modern Languages and Linguistics. Upon graduation, those students who pursue this option through a spoken language (e.g., French, German, Spanish, Latin, etc.) will receive a Bachelor of Arts (BA) degree.

Business Language Proficiency. Students may satisfy the business language proficiency requirement by completing the following coursework for a total of nine semester hours: ECO 2013, Principles of Macroeconomics, ECO 2023, Principles of Microeconomics, and one of the following: STA 2023, Fundamental Business Statistics, or STA 2122, Introduction to Applied Statistics. A student taking coursework to fulfill the department's business language requirement must earn at least a "C–" in each course; courses may not be taken on an S/U basis. Upon graduation, students who pursue the business language proficiency option will receive a Bachelor of Science (BS) degree.

Required Minor

A minor of at least twelve semester hours is required. All work counted toward the minor must carry a grade of "C–" or better. The minor must be in a department other than the School of Communication, with the exception of the Minor in Hispanic Marketing Communication. Requirements for the minor are established by the minor department, which can be found under the appropriate entry of this *General Bulletin*. Minors are checked by the major department upon graduation. See individual descriptions of majors below for suggestions. Communication majors who complete a second major outside of the School of Communication do not need a minor. The required minor **is still** applicable, however, to those pursuing a dual degree.

Interdepartmental Minor

A fifteen semester hour interdepartmental minor is possible, provided that the coursework is outside the School of Communication and is approved in advance by the faculty advisor and the School director.

Honors in the Major

The School of Communication offers a program in honors in communication to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Communication

The School of Communication offers a minor in communication on a space available basis only. The minor consists of twelve semester hours in communication selected from the following courses:

ADV 3008	Principles of Advertising (3)
ADV 3352	Mass Media Law (3)
ADV 3410	Hispanic Marketing Communication (3)*
COM 3332	New Communication Technology and Contemporary Society (3)*
COM 3483	Reel Legal (3)*
COM 3930	Special Topics in Communication (3)
IDS 3164	Media, Culture, and the Environment (3)
MMC 2000	Introduction to the Mass Media (3)*
PUR 3000	Introduction to Public Relations (3)*
RTV 3001	Media Techniques (3)*
SPC 3210	Contemporary Human Communication (3)*

***Available online**

In addition, any 3000 or 4000 level Communication courses completed at one of FSU's International Programs can count toward the minor.

Please note that only the courses listed above can be applied to the minor; the School will not make substitutions. Additionally, courses taken to meet the minor are not applicable to any other degree requirement.

Only coursework with a grade of "C–" or above in four of these courses will count toward the minor. Credit earned in meeting the Oral Communication Competency Requirement (OCCR) may not be used to satisfy the minor. At least six semester hours of the communication minor must be taken in the Florida State University School of Communication on campus, online, or at one of our International Programs.

The School of Communication also offers a minor in Hispanic Marketing Communication. Please contact the School for more information.

Description of Emphasis Areas

Advertising and Public Relations

- **Career and Educational Goals.** Students in this emphasis area will master skills necessary for a career in advertising or public relations.
- **Skills to be Developed.** Advertising students will focus on account management, creative strategy, media planning, and research skills. Public relations students will concentrate on public relations writing, tactics, research, and campaign management skills.
- **Focus Areas.** A student applying to this program is required to indicate on the application form his/her preferred focus area: advertising or public relations.
- **Major Hours Required.** Thirty-nine semester hours. All work counted toward the major must carry a grade of "C–" or better.
- **Required Minor.** A minor (or second major), with advisor approval, is required. All minor work must be in a department other than the School of Communication. All work counted toward the minor must carry a grade of "C–" or better. Requirements for the minor are established by the minor department and can be found in this *General Bulletin*. Suggested minors include: business, psychology, English, journalism (at FAMU), political science, social science, an interdepartmental minor, and others, depending upon one's career objectives.
- **Internship.** Advertising and public relations students are required to earn internship hours. Please see our website at *http://comm.cci.fsu.edu* for more information regarding this requirement.

Course Requirements for the Advertising and Public Relations Emphasis Areas

A listing of specific courses and requirements is available at *http://www.academic-guide.fsu.edu*.

Media/Communication Studies

- **Career and Educational Goals.** Students graduating in this emphasis area should have a solid liberal arts education. Degrees in media/communication studies are applicable to a number of fields including law, media industries, media research, communications, management, lobbying, management careers in media, cable, advertising, arts and entertainment, emerging information technologies, and related fields. Prospective students should note that the School of Communication does not offer a program in print or broadcast journalism.
- **Major Hours Required.** Thirty-three semester hours. All work counted toward the major must carry a grade of "C–" or better.
- **Required Minor.** A minor (or second major), with advisor approval, is required. All minor work must be in a department other than the School of Communication. All work counted toward the minor must carry a grade of "C–" or better. Requirements for the minor are established by the minor department and can be found in this *General Bulletin*. Recommended minors include: English, political science, psychology, journalism (at FAMU), sociology, women's studies, African-American studies, or British studies (the Florida State University London Program). A fifteen semester hour interdepartmental minor is also possible, provided the coursework is outside of the School of Communication and is approved in advance by the faculty advisor and the School director.
- **Internship.** An internship (COM 4945r) is strongly recommended. A student may enroll for up to twelve semester hours of internship, but a maximum of three semester hours may be credited toward the major.
- **Recommended Extracurricular Activities.** Forensics and Debate, V89, student government, theatre productions, Seminole Productions, WFSU and 4FSU, Lambda Pi Eta.

Course Requirements for the Media/Communication Studies Emphasis

A listing of specific courses and requirements is available at *http://www.academic-guide.fsu.edu*.

Digital Media Production

- **Career and Educational Goals.** Students with an emphasis in media production typically pursue management or production careers in broadcasting, cable, advertising, video production, arts and entertainment, emerging information technologies, and related fields. Prospective students should note that the School of Communication does not offer a program in print or broadcast journalism.
- **Areas of Special Knowledge and Skills to be Developed.** The media production emphasis will expose students to techniques employed in the production of digital media. Students may acquire such skills as writing for the media, on-camera performance, video production, and video editing.
- **Major Hours Required.** Thirty-nine semester hours are required in the digital media production area. All work counted toward the major must carry a grade of "C–" or better.
- **Required Minor.** A minor (or second major), with advisor approval, is required. All work must be in a department other than the School of Communication. All work counted toward the minor must carry a grade of a "C–" or better. Requirements for the minor are established by the minor department and can be found in this *General Bulletin*. Recommended minors include: business, English, political science, psychology, journalism (at FAMU), sociology, criminology, social sciences, American studies, or British studies (the Florida State University London Program). A fifteen semester hour interdepartmental minor is also possible, provided the coursework is outside the School of Communication and is approved in advance by the faculty advisor and the School director.
- **Internship.** An internship (COM 4945r) is strongly recommended. A student may enroll for up to twelve semester hours of internship, but a maximum of three semester hours may be credited toward the major.

Course Requirements for the Media Production Emphasis

A specific listing of courses and requirements is available at *http://www.academic-guide.fsu.edu*.

Definition of Prefixes

ADV—Advertising
COM—Communication
IDS—Interdisciplinary Studies
MMC—Mass Media Communication
ORI—Oral Interpretation
PUR—Public Relations
RTV— Radio, Television
SED—Speech Education
SPC—Speech Communication
VIC—Visual Communication

Undergraduate Courses

ADV 3001. Advertising Strategy (3). Prerequisite: Admission to the Advertising major. This foundation course in advertising explores creativity in a workshop environment.

ADV 3008. Principles of Advertising (3). This course explores advertising and promotion as related to level of economic growth, cultural influences, and sociolegal environments.

ACG 3171. Analysis of Financial Statement Presentation (3). Prerequisite: ACG 2021 with a grade of "C-" or better. This course is intended to provide students with the tools needed to evaluate the content of financial statements and accompanying disclosures. This is achieved by developing an understanding of generally accepted accounting principles (GAAP) and their application.

ADV 3352. Mass Media Law (3). This course offers a comprehensive review of laws, rules, and regulations affecting both the advertising and broadcast industries as well as other forms of mass media. Topics include libel, slander, invasion of privacy, gathering of information, and copyright laws.

ADV 3410. Hispanic Marketing Communication (3). This course prepares undergraduate students to become educated decision makers and consumers of information regarding U.S. Hispanic marketing communication issues.

ADV 3801r. Advertising Team I (3). (S/U grade only.) Prerequisite: Instructor permission. This course is application-based and provides students with the opportunity to develop a complete Integrated Marketing Communication campaign plan as part of the National Student Advertising Competition sponsored by the American Advertising Federation. The course is set up as hierarchy-based advertising agency with some students in leadership positions and others working in departments that are managed by student directors. May be repeated to a maximum of six semester hours.

ADV 3823r. Advertising Team II (3). Prerequisite: Instructor permission. This course is the second of a two course sequence. The course focuses on campaign execution. The advertising team course is an application-based class, which provides students with the opportunity to develop a complete Integrated Marketing Communication campaign plan as part of the National Student Advertising Competition sponsored by the American Advertising Federation. The class is set up as hierarchy based advertising agency with some students in leadership positions and others working in departments that are managed by student directors. May be repeated to a maximum of six semester hours.

ADV 4300. Media Planning (3). Prerequisite: ADV 3008. This course explores the coordination of advertising and marketing research, planning, creative strategy, and selection of media and production activities leading to the development of advertising campaigns.

ADV 4411. Multicultural Marketing Communication (3). This course is geared to train students to become effective communicators and marketers when reaching out to multicultural society. Marketers, communicators, and service providers interested in being effective in reaching out to culturally diverse groups need to become adept at designing messages and strategies geared to a culturally diverse society.

ADV 4500. Advertising Research (3). Prerequisite: ADV 3008. This course covers survey, observational, and experimental methods and processes. Topics include research design, planning, questionnaire construction, sampling, validity measurements, field work, tabulations, presentation, and interpretation.

ADV 4603. Account Planning (3). This course explores account planning as a growing practice in advertising and public relations that emphasizes placing the consumer at the center of strategic planning. The account planner obtains consumer insights and ensures that the planning process is informed by consumer needs, values, and dispositions.

ADV 4800. Creative Strategy II (3). Prerequisites: ADV 3001, ADV 3008, and ADV 4500. This course fosters creative and empathetic skills necessary in communicating via print and electronic media and enables students to utilize these skills in creating integrated advertising campaigns.

COM 2080. Online Communication and Presence (3). This course provides students with theoretical background and practical experience in constructing messages for online communication, as well as managing self-presentation and professional relationships in the online environment. The course includes critical analysis of information sources and audiences and the development and delivery of online oral presentations.

COM 2412. Culture, Identity and Communication in Context (3). This course brings international and U.S. American students together to explore intercultural communication in a specific set of contexts, including the academic environment; day to day social interactions; family structures; national political scenes; the business world, and more.

COM 2740. Contemporary Issues in Communication (3). (S/U grade only.) This course introduces contemporary issues in communication, including communication as an academic discipline, a major business and governmental policy sector, and a professional career. The course reviews some historical and predominantly current issues, policies and practices that are central to the field of communication.

COM 3070. Careers in Communication (3). (S/U grade only.) Prerequisite: Admission to Media/Communication Studies. This course is designed to help Media/Communication Studies students be able to identify career goals, analyze career fields in communication, create a resumé and cover letter, and demonstrate interviewing skills.

COM 3110. Communication for Business and the Professions (3). This workplace-oriented course provides practical education and experience in the performance of informative, persuasive, and special occasion speeches through individual and group presentations. Fulfills OCCR requirement.

COM 3310. Communication Research Methods (3). This course is an introduction to communication research methods. It examines survey, experimental, observational, and content analysis methods. Philosophy of science, research design, measurement, sampling, data collection, analysis, interpretation, and reporting.

COM 3332. New Communication Technology and Contemporary Society (3). This course relates the development and the use of new communication technologies to a variety of issues, such as social, economic, health, and policy implications.

COM 3420. Media, Culture, and the Environment (3). This course examines the role of language and representation in our understanding of the natural world. The course examines news media coverage of environmental issues, environmental images in popular culture, as well as the communication strategies of environmental organizations.

COM 3483. Reel Legal (3). This course provides students with a basic understanding of the law through the use of films about the law. Concepts include: natural law, coaching witnesses, rights of the accused, jury deliberations, perjury, legal ethics, congressional investigations, obligation of witnesses, right to counsel, etc. Topics such as race, class, gender, and ethnicity as pertaining to law are also explored.

COM 3510. Political Communication and Campaigning (3). This course explores campaigns, elections, and American politics in a communication framework; planning campaign strategies.

COM 3930r. Special Topics in Communication (3). This course is an analysis of specialized topics of current concern in communication. May be repeated to a maximum of six semester hours; duplicate registration allowed.

COM 3933r. Application of Communication Skills (1–6). (S/U grade only.) This course combines some classroom lecture with other types of instruction that allows students to apply a variety of communication skills in diverse settings. The course is meant for groups of students rather than individuals. The other types of instruction can be a combination of any or all of the following: internship, directed individual study, project implementation, laboratory, and other instructional modes tailored to the specific topic of the course and the educational goal of the students. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

COM 3950r. Communication Activities (1). (S/U grade only.) May be repeated to a maximum of four semester hours; duplicate registration allowed.

COM 3951. Global Exchange Formative Experience (0). (S/U grade only.) Prerequisites: Students must complete the application and coursework approval process for an FSU Global Exchange; and Permission of the Program Director, Intercultural Programs and Exchanges. This course provides students with tools for positive interaction with people from other cultures and introduces them to concepts and strategies for intercultural communication, dealing with culture shock, and safety and security abroad. The course provides tools, concepts, and strategies that help students have a positive experience abroad during their Global Exchange and help them prepare to enter the global workforce when they graduate.

COM 4173. ICT Enterprise (3). This course is an introduction to information technology entrepreneurship. The course includes critical aspects of small business development; building entrepreneurial attitudes and behaviors that lead to inventive thinking as well as the important aspects of planning, managing, and funding a startup business.

COM 4470. Desktop Multimedia (3). This course provides overview of operations and applications of software packages; principles of design and presentation for print-based as well as audio-visual productions.

COM 4480. Legal Communication (3). This course is an analysis of how communication affects and is affected by our legal institutions and processes.

COM 4560. Social Marketing (3). Prerequisite: MMC 2000 or PUR 3000. This course is an overview and application of social marketing principles and campaigns. The course is designed to familiarize students with current theory and knowledge in the field of social marketing and to provide students experience with planning a social marketing campaign.

COM 4561. Social Media Campaigns (3). This course prepares students to design and implement a social media campaign, and introduces them to the social, political, and ethical contexts of using new technologies. The class takes either a social advocacy or a marketing perspective.

COM 4712. Writing to Persuade (3). This course teaches students how to identify and apply the persuasive techniques and strategies for writing in a way that influences audiences to think and act in certain ways.

COM 4905r. Directed Individual Study (1–3). (S/U grade only.) Prerequisite: Admission to a Communication major. In this course, students select a topic of interest to pursue under supervision of a faculty member. Could be research/creative, pedagogy, service, or applied. Results in final project, scope and type to be defined by student and faculty supervisor. May be repeated to a maximum of nine semester hours.

COM 4909r. Honors Work (1–6). Prerequisite: Admission to the major. This course is for students in the honors program who are working on an honors thesis.

COM 4910r. Application of Research Methods (1–3). (S/U grade only.) Prerequisite: Instructor permission. This course offers experience in methods and strategies of research in communication concepts. Individually designed to accommodate student's background and objectives. May be repeated to a maximum of four (4) credit hours; repeatable within the same term.

COM 4930r. Undergraduate Seminar in Communication (3). This course explores advanced communication issues with an emphasis on research. May be repeated to a maximum of six semester hours; duplicate registration allowed.

COM 4935. Senior Seminar in Communication Studies (3). This course is an advanced seminar in communication studies with an emphasis in legal communication studies, communication and culture, or rhetorical studies.

COM 4941r. Application of Instructional Methods (0–3). (S/U grade only.) Prerequisite: Admission to a Communication major. This course provides experience in methods and strategies of teaching communication concepts within the University context. Individually designed to accommodate student's background and objectives. May be repeated to a maximum of three (3) credit hours.

COM 4945r. Communication Internship (1–12). (S/U grade only.) Prerequisite: Admission to a major in Communication. This course is a supervised internship. The credit is proportional to the scope and significance of work and may not be applied to graduate degrees. The course is individually designed to accommodate student's background and objectives. This course may be repeated to a maximum of twelve (12) semester hours.

IDS 2451. From Page to Screen: The Art and Politics of Adaptation (3). In this course, students read original texts in different genres (e.g. mystery, children's fantasy novel, play, choreopoem, film, short story) and then watch and analyze films based on those texts. In doing so, students explore two major questions: "Why are cinematic adaptations so prolific in America?" and "Why do we like (or hate) film adaptations of texts we have already read"?

IDS 2452. Documentary Film: History, Theory, and Practice (3). This course examines the major trends in the documentary film tradition, beginning with the first efforts in the early part of the 20th century and moving up to the present while providing students the opportunity to learn the basics of documentary practice.

IDS 2460. Global Perspectives: Communication (3). This course introduces students to the basic processes of intercultural communication from a global perspective in hopes of increasing their curiosity and acceptance of other cultures.

IDS 2490. Social Responsibility (Rhetorically Speaking) (3). This course is for students living in the social justice living learning community. It acquaints students with the principles of communication and the role it plays in social justice movements.

IDS 2491. Communication Matters – Personal Responsibility in Public Speaking (3). This course covers both the principles of and the practical experience of public speaking with an emphasis on personal responsibility.

IDS 3164. Media, Culture and the Environment (3). This course examines the role of language and representation in our understanding of the natural world. The course examines news media coverage of environmental issues, environmental images in popular culture as well as the communication strategies of environmental organizations.

MMC 2000. Introduction to the Mass Media (3). This course covers a historical and social overview of the mass media and their relationship to the mass communication process in a modern society.

MMC 3703. Media, Sports, and Society (3). Prerequisite: MMC 2000. This course introduces students to various aspects of the sports-media relationship, including the history of, the industries that constitute, the audiences drawn to, and the social issues that arise from the relationship.

MMC 4200. Media Legalities (3). Prerequisite: MMC 2000. This course is a review and application of media business practices and legal requirements involved in the conception and production of media content on electronic, online, and new media platforms.

MMC 4203. Media Ethics (3). Prerequisite: MMC 2000 or RTV 3001. This course surveys the ethical principles, standards, and problems in the practice of journalism, advertising, and/or public relations.

MMC 4300. Diffusion of Innovations (3). This course is an analysis of the process of change, particularly from the standpoint of how communication is used in the introduction, spread, and adoption of new ideas, behaviors, and products within a society.

MMC 4302. Comparative and International Media Studies (3). Prerequisite: Admission to one of the majors in the School of Communication. This course is an examination of various international and national media systems and the elements which determine the type of media currently operating throughout the world.

MMC 4504. Writing Media Criticism (3). This course investigates media criticism with an emphasis on composition. It focuses on some of the dominant critical perspectives that contribute to our understanding of media and its role in society. The course applies various schools of media criticism through reading, watching, discussing, and writing a wide range of media texts.

MMC 4602. Mass Media and Society (3). Prerequisite: MMC 2000. This course is an analysis of the effects of mass media on public opinion and behavior. A review of social science research exploring the impact of TV on children and others.

MMC 4641. Political Economy of Media (3). Prerequisite: MMC 2000 or RTV 3001. This course covers the structure and functions of U.S. and other mass-communication systems as well as their relationship to the political and economic systems.

ORI 3004. Performance Studies (3). This course allows students to collect, analyze, and perform personal narratives and everyday conversations.

ORI 3110. Performance of Contemporary Literature (3). This course includes analysis of and practical experience in the performance of poetry and prose.

PUR 3000. Introduction to Public Relations (3). This course introduces the student to the principles and practices of the public relations profession throughout all organizations using public relations.

PUR 3002. Public Relations Techniques (3). Prerequisites: PUR 3000 and PUR 3100. This course covers the tools and techniques of public relations. Application of public relations principles.

PUR 3100. Writing for Public Relations (3). Pre- or corequisite: PUR 3000. This course is designed to develop professional-level writing skills for public relations.

PUR 3930. Public Relations Proseminar (1). (S/U grade only.) Corequisite: PUR 3000. For this course, public relations majors must register for the proseminar on admission to the program. They are to become active in FPRA, PRSSA, or WIC and remain active during undergraduate work.

PUR 4400. Crisis Communication (3). This course is an advances undergraduate seminar focusing on the theoretical analysis, practical strategies, and assessments of implications for all publics of national and international crisis communication situations.

PUR 4600. Public Relations Management: Cases and Campaign Strategies (3). Prerequisites: PUR 3000, PUR 3002, and PUR 3100. This course is designed to focus on the management function of public relations. Focus is on significant cases and campaign strategies.

PUR 4940r. Public Relations Internship (1–12). (S/U grade only.) Prerequisites: PUR 3000, PUR 3002, and PUR 3100. This course consists of practical application of classroom principles in public relations settings. May be repeated to a maximum of twelve semester hours.

RTV 3001. Media Techniques (3). This course introduces students to basic principles and terminology associated with the aesthetics of film making and television production.

RTV 3101. Writing for the Electronic Media (3). This course consists of non-fiction writing for television and radio including public affairs, commercials, and documentaries.

RTV 3103. Narrative Writing for Television and Film (3). This course consists of the development and writing of fictional scripts for television and film.

RTV 3531. Single-Camera Video Production (3). Corequisite: RTV 3571. This course addresses direction and production of single-camera video projects including camera, audio, lighting, and linear editing.

RTV 3533. Television Production (4). This course consists of the fundamentals of studio and field production including camera, audio, lighting, and production planning using the crew system.

RTV 3543. Multiple Camera Studio Production (3). Prerequisite: Admission to the Digital Media Production major. This course is a "professional experience" course designed to give students experience operating various roles in a multi-camera production environment.

RTV 3571. Video Post Production (3). (S/U grade only.) Corequisite: RTV 3531. This course consists of advanced editing and post production techniques applied to field and studio projects. Emphasis on digital non-linear editing systems.

RTV 3602. Television Interviewing and Hosting (3). This course introduces students to on-camera interviewing and hosting of news and public affairs programs including research and writing components.

RTV 3610. Computer Graphics and Animation (3). Prerequisites: RTV 3531 and RTV 3571. This course studies the design and production of computer-generated graphics and animation for video projects.

RTV 3611. 3D Video Animation (3). This course covers the techniques used to prepare, create, and post-produce 3D graphics and animation with video.

RTV 3680r. Video Workshop (1–3). (S/U grade only.) Prerequisite: Communication major status. This course is designed for students to gain experience in the production of television programs and video projects. May be repeated to a maximum of three semester hours.

RTV 3941r. Radio Practicum (1–9). (S/U grade only.) Prerequisite: Instructor permission. This course consists of radio work and day-to-day broadcast operations with an emphasis on practical application in either of two areas: management or other advanced roles at the student radio station; or special individual projects in the application, study, or research pertaining to radio broadcasting. May be repeated to a maximum of nine credit hours.

RTV 4291. Advocacy Video Theory and Practice (3). Prerequisites: RTV 3531, RTV 3571, and admission to the Media Production major or instructor permission. This course explores the theory and practice of short-form video production. In addition, the course examines the social media distribution possibilities for these videos.

RTV 4332. Documentary Video Production (3). Corequisites: RTV 3531 and RTV 3571. This course offers instruction in the theory and practice of production of non-fiction documentary video. Students produce a final video product after studying the documentary tradition, theory, and history.

RTV 4467r. Television Practicum (3–6). Prerequisites: RTV 3531 and RTV 3571. This course consists of producing and directing television programs and video projects. May be repeated to a maximum of nine semester hours.

RTV 4595. Immersive Video Production (3). Prerequisites: RTV 3531, RTV 3571, and admission to the DMP major or special permission by instructor. This course explores a range of new camera technology and software that allows for the post-production of immersive media, and identifies best practices for producing, shooting, editing and displaying immersive video products.

RTV 4651. Advanced Narrative Production (3). Prerequisites: RTV 3531 and RTV 3571. This course includes original student narratives produced through writing, pre-production, and post-production stages.

RTV 4682. Advanced Feature Production (3). Prerequisites: RTV 3531 and RTV 3571; or RTV 3533. This course is a "professional experience" course designed to give students professional production experience in an educational environment. Students act as the production crew on program features. This includes videography, editing, audio, and graphic design.

RTV 4686. Advanced Feature Reporting (3). Corequisite: RTV 3602. This is a professional course designed to give you on-air experience in an educational environment, while promoting FSU athletics. Students produce features for Seminole Sports Magazine, a thirty-minute show that airs weekly on Sun Sports.

RTV 4800. Broadcast Operations & Management (3). (S/U grade only.) Prerequisite: Instructor permission. This course explores the purpose, function, organization, and management of broadcast operations with an emphasis on advanced application, understanding, and skills-building.

RTV 4930. Los Angeles Television Experience (3). Prerequisite: Admission to the Media Production major. This course examines the TV and film industry in Los Angeles including the industry structure, production cycles, the studios, the networks, and the writers. The course takes place in Los Angles and also addresses professional career paths in the Los Angeles entertainment industry.

SPC 1017. Fundamentals of Speech (3). This course provides a survey and application of communication theory, including interpersonal communication, small group communication, and public speaking.

SPC 2608. Public Speaking (3). This course covers both the principles of and the practical experience of public speaking. The course is required of all majors. The course is also available in hybrid format (mostly online, partly classroom).

SPC 2730. Global Perspectives: Communication (3). This course gives students an introduction to the basic processes of intercultural communication from a global perspective with a goal of increasing their curiosity and acceptance of other cultures.

SPC 3210. Contemporary Human Communication (3). This introductory course surveys current scholarship in five areas of communication theory: group, rhetorical, interpersonal, legal, and performance communication.

SPC 3233. Classical Rhetoric (3). Recommended prerequisite: SPC 3210. This course allows students to examine the origins of rhetorical theory during the classical period. The course emphasizes ideas on rhetoric of Plato, Aristotle, Cicero, and Quintillian.

SPC 3301. Interpersonal Communication (3). This course is a survey of recent literature on interpersonal communication including such topics as self-concept, emotional behavior, interpersonal conflict, and interpersonal attraction.

SPC 3331. Nonverbal Communication (3). This course is a review of recent literature on nonverbal communication including such topics as kinesics, proxemics, kinesthetic behavior, environment, physical characteristics, and personal appearance.

SPC 3593r. Competitive Intercollegiate Forensics (1). This course consists of competitive debate and individual events. Experienced students develop and perfect their speaking skills in a highly competitive, structured format of instruction and competition. May be repeated to a maximum of eight semester hours.

SPC 3644. Art and Entertainment: The Hidden Persuaders (3). This course is an analysis of drama as an instrument for advancing a political or social thesis.

SPC 4540. Persuasion (3). This course is a study of the psychology of attitude formation and change, including theories of persuasion and principles of persuasive communication.

SPC 4605. The Principles of Speechwriting (3). Corequisite: COM 3110. This course explores the history and principles of speechwriting, the ethical issues involved, and speechwriting skills based on sound principles of communication.

SPC 4630. Rhetoric of Women's Issues (3). This course is an examination of selected social and political issues that affect women today. The course includes analysis of content, lines of argument, supporting evidence, and rhetorical strategies.

SPC 4680. Methods of Rhetorical Criticism (3). Recommended prerequisite: SPC 3231 or SPC 3233. This course examines methods for the practice of doing criticism of rhetorical discourse. Topics include Aristotelian, Metaphor, narrative, post-modern, and cultural approaches to the analysis of texts.

SPC 4710. Interracial/Intercultural Communication (3). Prerequisite: SPC 3210. This course helps students gain knowledge of the theory and process of interracial/intercultural communication.

SPC 4711. Gender and Communication (3). This course is designed to help students gain knowledge of the theory and process of gender communication (about and between genders) from an interpersonal context perspective.

Graduate Courses

ADV 5007. Foundations of Integrated Marketing Communications (3).
ADV 5415. Hispanic Marketing Communication (3).
ADV 5416. Multicultural Marketing Communication (3).
ADV 5503. Media Consumer Behavior (3).
ADV 5605. Account Planning (3).
ADV 5701. Communication Career Futures (3). (S/U grade only.)
COM 5126. Organizational Communication Theory and Practice (3).
COM 5127. Assessing Organizational Communication (3).
COM 5235. Crisis Communication (3).
COM 5312. Research Methods in Communication (3).
COM 5314. Measurement of Listener-Viewer Attitude and Response (3).
COM 5316. Statistical Methods in Communication Research (3).
COM 5317. Content Analysis in Communication Research (3).
COM 5331. Data Analysis in Communication Science (3).
COM 5338. Web Site Usability and Design (3).
COM 5339. Interactive Programming and Design for the Web (3).
COM 5340. Historical-Critical Methods of Research (3).
COM 5348. Qualitative Methods in Communication Research (3).
COM 5364. Foundations of Digital Media (3).
COM 5365. Computer Graphics and Animation (3).
COM 5401. Analysis of Communication Theory (3).
COM 5426. Media, Culture, and the Environment (3).
COM 5450. Introduction to Project Management (3).
COM 5451. Advanced Topics in Project Management (3).
COM 5452. Agile Project Management (3).
COM 5526. Marketing Communication Management (3).
COM 5546. Political Communication (3).
COM 5565. Social Media Advocacy Campaigns (3).
COM 5906r. Directed Individual Study (1–12). (S/U grade only.)
COM 5911r. Supervised Research (1–5). (S/U grade only.)
COM 5920r. Colloquium in Communication (0–1). (S/U grade only.)
COM 5940r. Supervised Teaching (1–5). (S/U grade only.)
COM 5946r. Communication Residency (1–6). (S/U grade only.)
COM 5955. Capstone Creative Project (1–6). (S/U grade only.)
COM 6015. Gender and Communication (3).
COM 6400r. Seminar in Communication Theory (3).
COM 6403r. Advanced Problems in Communication Theory and Research (2–8).
COM 6900. Preparation for the Preliminary Examination (2–4). (S/U grade only.)
COM 6931r. Special Topics in Communication Research (3).
COM 8975. Capstone Creative Project Defense (0). (S/U grade only.)
MMC 5305. Comparative Systems of Mass Communication (3).
MMC 5600. Mass Communication Theory and Effects (3).
MMC 5646. Political Economy of Media (3).
MMC 6469. Diffusion of Innovations (3).
MMC 6920r. Colloquium in Mass Communication (3).
RTV 5333. Documentary Video Production (3).
RTV 5423. New Communication Technology (3).
RTV 5575. Digital Post Production (3).
RTV 5596. Immersive Video Production (3).
RTV 5605. Advocacy Video Theory and Practice (3).
RTV 5702. Communication Regulation and Policy (3).
RTV 6425r. Advanced Seminar in New Communication Technologies (3–6).
SED 5346. Teaching Oral Communication Courses (3).
SPA 5058. Clinical Methods (4).
SPC 5234. Classical Theories of Rhetoric (3).
SPC 5442. Group Dynamics and Leadership (3).
SPC 5545. Studies in Persuasion (3).
SPC 6306. Contemporary Topics in Interpersonal Communication (3).
SPC 6715. Race, Culture, and Communication (3).
SPC 6920r. Colloquium in Speech Communication (3).
VIC 5006. Digital Visual Communication (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

School of COMMUNICATION SCIENCE AND DISORDERS Undergraduate Programs

College of Communication and Information

Website: *http://commdisorders.cci.fsu.edu/*
Director: Hugh Catts; **Professors:** Catts, Morris, Wood; **Associate Professors:** Farquharson, Ingvalson, Lansford; **Assistant Professors:** Barton-Hulsey, Constantino, Hall-Mills, Madden, Romano, Therrien, Tibi; **Specialty Faculty:** **Teaching Faculty III:** Nimmons, Snowden; **Teaching Faculty II:** Montgomery, Sasser; **Teaching Faculty I:** Brosnan-Maddox, Crass, Deason, Guynes

The mission of the School of Communication Science and Disorders is to prepare undergraduate and graduate students to demonstrate broad-based knowledge in communication processes and disorders and to integrate theoretical knowledge and research findings with clinical practicum experiences. The School prepares students to become speech-language pathologists who can provide effective diagnostic and treatment services to individuals with a wide variety of speech, language, and hearing impairments. It also prepares clinical scientists to generate new knowledge pertaining to communication processes and innovative strategies for evaluating and managing communication disorders. The mission is carried out through clinical and instructional programs, professional and clinical service, and clinical research. The School provides education for students seeking the Bachelor of Science (BS), Master of Science (MS), and Doctor of Philosophy (PhD) degrees.

Florida State University has approved American Sign Language as a substitute for a foreign language for the Bachelor of Arts (BA) degree. The sequence of American Sign Language courses includes: Beginning ASL (ASL 1140C), Intermediate ASL (ASL 2150C), and Advanced ASL (ASL 2160C). ASL courses may not be taken for a Satisfactory/Unsatisfactory (S/U) or Pass/Fail (P/F) grade. These courses may not be available to non-Communication Science and Disorders majors every semester.

Students with previous experience with ASL may wish to take a competency exam administered by a non-affiliated third party. Students interested in pursuing this option should contact the academic office at *(850) 644-2253* for a copy of the current competency exam policy. Students will not earn University credits for ASL coursework they need not complete. The School does not offer a degree in education of the Deaf nor in sign language interpretation.

Students enrolled in programs of the School of Communication Science and Disorders at Florida State University are provided unique experiences because of the learning environment. The school is in the College of Communication and Information, which provides numerous collateral educational experiences. The L.L. Schendel Speech and Hearing Clinic is the primary teaching and research laboratory for students and faculty and provides comprehensive, multidisciplinary evaluation and treatment services to persons in the community and region with communication disorders. The newly renovated Warren Building has space for a variety of specialized functions including videotape laboratories, diagnostic audiology instrumentation, sound isolation rooms, non-speech systems, and a complement of other clinical resources for clinical instruction and delivery of clinical services.

The School also maintains a number of Communication Science and Disorders laboratories for the study of physical and psychological aspects of sound, speech, voice, and language. These facilities provide space and highly specialized equipment to students and faculty, including laboratories for study in speech and voice science, language and literacy, early language development, and adult language.

In addition, the School administers the Interdepartmental Certificate Program in Developmental Disabilities. The purpose of this program is to provide upper-division undergraduate students from a variety of disciplines with knowledge regarding etiology, assessment, treatment, and policy issues related to individuals with developmental disabilities and their families. Students seeking certification must complete nine semester hours of coursework from three different departments and three semester hours of practicum from an approved list of courses and practica. No more than three semester hours may be taken in the student's major area of study. More than forty courses are available in the following disciplines: art education, communication science and disorders, family and child sciences, middle and secondary education, music education/therapy, nursing, psychology, social work, and special education.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program. Please note that not all courses within the listed prefix are acceptable. For all prerequisite questions, please contact *Jennifer Kekelis, Assistant Director of Academic and Student Services, School of Communication Science and Disorders, Florida State University, Tallahassee, FL 32306-1200 via email: jennifer.kekelis@cci.fsu.edu*:

Speech Pathology & Audiology

1. STA XXXX
2. BSC XXXX
3. PSY XXXX or EXP XXXX or CLP XXXX or DEP XXXX or SYG XXXX or SYD XXXX or SYO XXXX or SYP XXXX or FYC XXXX or FAD XXXX
4. PHY XXXX or CHM XXXX

Minimum Requirements for Application

Students normally enter the program at the junior level, but must have at least 52 credit hours, must have a minimum grade point average (GPA) of 3.0 for all coursework, and have successfully completed Florida State University's liberal studies requirements. Admission to Florida State University does not ensure admission to the School of Communication Science and Disorders, **nor does attainment of the minimum grade point average**. Formal application to the school is required of all entering majors. Non-FSU or transfer students also must apply to the University. Normally, admission is for the Fall semester. All materials necessary for admission applications must be submitted directly to the School by the first business day in February by 5:00 p.m. EST for admission. Additional deadlines and admission procedures can be found on the school Web site, at *http://commdisorders.cci.fsu.edu/*. It is recommended that students include MAC 1105 and STA 2122 in their pre-major coursework.

Students applying for admission must:

1. Have an overall GPA of 3.0 or higher on all college coursework to be considered for admission
2. Have completed CLEP and accelerated credit scores posted by time of application
3. Have all liberal studies course substitutions approved by the appropriate dean and posted by time of application
4. In addition, students must complete the following requirements by the end of the Spring semester in which they are applying
   a. A minimum of fifty-two semester hours of college coursework accepted by Florida State University
   b. Successfully complete all Liberal Studies and writing requirement coursework as accepted by Florida State University

Note: All coursework for eligibility must be reflected on submitted transcripts or on Spring course schedules by the application deadline.

Requirements for an Undergraduate Major in Communication Science and Disorders

The curriculum leading to the baccalaureate degree consists of forty-two credit hours of upper division coursework and combines liberal arts education with pre-professional preparation for the graduate program in the School or elsewhere. At the undergraduate level, students are provided experiences relating to the basic processes of hearing, language, and speech. The junior-year course offerings focus on the basic science and developmental foundations considered prerequisite for the specialty curricula initiated during the senior year. To qualify for graduation from the major, all undergraduates in Communication Science and Disorders must earn a grade of "C–" or better for each required major course and must have an overall GPA of at least 2.0 in major coursework, and complete forty-two credit hours of School of Communication Science and Disorders major coursework.

Speech-language pathology courses cover the nature, evaluation, and treatment of problems of articulation, language, fluency, voice, neurophysiological, and structural disorders affecting speech and language. Audiology courses are concerned with the identification, measurement, evaluation, and rehabilitation of persons with hearing impairments. Studies in communication science concern analysis and measurement of components of the production, transmission, and reception of the speech signal.

Undergraduate students learn anatomy and physiology of the speech and hearing mechanisms; sound and its perception; the development of language

and communication systems; the components of the English sound system; the neurological bases of speech, language, and hearing; sign language; strategies for clinical intervention; diagnostic/evaluation strategies in speech, language, and hearing; basic concepts related to disorders in language, phonology, and fluency; as well as professional issues in communication disorders.

The major professional, educational, and clinical experiences occur during graduate studies leading to the master's degree. Eligibility for the certificate of clinical competence from the American Speech-Language-Hearing Association and state licensure are not possible until the requirements for the master's degree are met.

The master's of speech-language pathology program is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology and prepares students to work in hospital, clinical, school, or private settings with a variety of developmental and acquired communication disorders.

Modern/Foreign Language Competency

Students admitted into the School of Communication Science and Disorders undergraduate program will be required to become proficient in one language other than English prior to graduation. Proficiency is defined as a letter grade of "C–" or better per course in a modern or classical foreign language through the intermediate level (a language course numbered 2220 or its equivalent) or a letter grade of "C–" or better in American Sign Language courses through the advanced level (ASL 2160C). Students **may not** take ASL courses for S/U or P/F grades. Native speakers of another language and other students who wish to demonstrate proficiency by means other than coursework should consult the Department of Modern Languages and Linguistics, or for American Sign Language, the School of Communication Science and Disorders.

Fulfilling the language requirement for the School will partially fulfill the University requirements for a Bachelor of Arts (BA) degree. To earn a BA degree, a student must complete the language requirement and take an additional nine semester hours in the fields of humanities or history beyond the liberal studies requirements. Please consult the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for more information. If the additional nine semester hours in humanities or history are not present on the student record at the point of graduation, the student could expect to earn a Bachelor of Science (BS) degree.

Please note that the School's classical or modern foreign language requirement is more extensive than the University's foreign language admission requirement. It is important to understand that, although completion of two years of high school foreign language courses or two semesters of post-secondary foreign language will satisfy the University's admission requirement, these courses do not satisfy the School of Communication Science and Disorders foreign language graduation requirement for BA/BS students.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in communication science and disorders satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

Retention Standards

The School of Communication Science and Disorders reserves the right to discontinue enrollment of any student in the major at any time if, in the judgment of the faculty, the student does not meet the standards of the School or the major. Specifically, majors in the School of Communication Science and Disorders must maintain an overall GPA of 3.0 on all college coursework or they may be placed on probation and may be dropped subsequently from the major.

Definition of Prefixes

ASL—American Sign Language
IDS—Interdisciplinary Studies
LIN—Linguistics
SPA—Speech Pathology and Audiology

Undergraduate Courses

ASL 1140C. Beginning American Sign Language (4). In this course, students develop expressive and receptive American Sign Language (ASL) skills at an introductory level, participating in one-to-one and group conversations of varying topics. Students also learn basic grammatical principals of ASL, and foundational concepts of Deaf culture, with a focus on implications for future careers.

ASL 2150C. Intermediate American Sign Language (4). Prerequisite: ASL 1140C. This course expands students' comprehension and production of American Sign Language (ASL) with a primary emphasis on dialogue. The course focuses on increased vocabulary and conceptual accuracy. Students continue to develop expressive and receptive ASL skills to an intermediate level, participating in one-to-one and group conversations of varying topics. Students increase their knowledge of grammatical principles of ASL and more in-depth concepts of Deaf culture, with a continued focus on implications for future careers.

ASL 2160C. Advanced American Sign Language (4). Prerequisites: ASL 1140C and ASL 2150C. This course is designed to advance students' sign language skills towards conversational proficiency. Students continue to develop expressive and receptive American Sign Language (ASL) skills to an advanced level, participating in larger group conversations of varying topics. Students increase their knowledge of ASL grammatical principles and Deaf culture. Students in this course shift from "learning to sign" to "signing to learn." Conversational topics focus heavily on implications for future careers.

ASL 2400. Introduction to Sign Language Systems (2). This course provides an introduction to the deaf culture and to sign language as a communication system, and encoding and decoding skills of Signed English and finger spelling.

ASL 2510. Deaf Culture (3). This course acquaints students with the political, cultural, educational, and social parameters of Deaf Culture. Students develop knowledge regarding the cultural perspective of deafness held in the United States of America and in less depth, worldwide. In comparison, perspectives opposing the cultural view of deafness are also explored.

IDS 2650. Thinking About Language: How Cognition and Language Interact (3). This course discusses how having language influences other cognitive processes, such as vision and memory.

LIN 3200. Fundamentals of Phonetics (3). This course is a study of the acoustical and physiological aspects of speech-sound production. An orientation to the international phonetic alphabet and its use for the broad transcription of General American English.

SPA 2001. Introduction to Communication Sciences and Disorders (3). This introductory course provides an overview of human communication disorders with a focus on the neuroanatomic, acoustic, biological, psychological, developmental, and linguistic principles underlying human communication disorders. It also provides an overview of the field of speech-language pathology and audiology with an emphasis on the scientific aspects of clinical assessment and rehabilitation of clients. Intended for non-majors.

SPA 2020. Effective Oral Communication (3). This course surveys and applies selected techniques for generating effective oral communication using standard American English. Course topics include listening and speaking skills, vocal health, interpersonal communication, public speaking, speaking apprehension, and dialect/accent differences. Speaking activities are designed to meet the student's professional goals.

SPA 3801r. Applications of Research in Communication Sciences and Disorders (1–3). This course teaches basic research concepts and skills through practical experiences. Students apply research techniques while assisting with activities in various research settings, through simulations in the classroom, and through individual projects. May be repeated to a maximum of six semester hours.

SPA 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

SPA 4004. Normal Communication Development (4). This course provides an overview of the fundamental bases of language development, offering skills and knowledge that are pivotal to preparing future professionals for a variety of careers and scientific inquiry. This overview serves as a foundation for advanced coursework and for a variety of professions such as working in an educational setting, in a child-care facility, with individuals with communication disorders, or conducting related research.

SPA 4011C. Acoustics for Speech and Hearing (4). This course covers basic acoustics and speech acoustics including frequency, intensity, duration, and wave composition and their psychological correlates, pitch, loudness, time, and sound quality. Lectures, demonstrations, and required laboratory project.

SPA 4050. Clinical Observation and Practice (3). (S/U grade only.) Prerequisites: SPA 3201, SPA 4302, and SPA 4400. This course provides supervised practice in therapeutic procedures with persons with various speech-language problems.

SPA 4056. Clinical Methods (3). This course introduces students to clinical practice of speech-language pathology. Students become acquainted with the principles of assessment, application of diagnostic information, intervention planning, intervention strategies and techniques, service delivery options, and data collections. Students also gain an understanding of team membership and are introduced to the skills necessary for team building.

SPA 4101C. Anatomy and Physiology of the Speech and Hearing Mechanism (4). This course is an introduction to the anatomy and physiology of the speech and hearing systems. It also includes critical thinking and effective writing components.

SPA 4104. Neurological Bases of Communication (3). Prerequisite: SPA 4101C. This course covers normal neuroanatomy, neurophysiology, and neuropathologies affecting communication. Prior anatomy and physiology of speech mechanisms needed.

SPA 4112. Clinical Phonetics (4). This course focuses on the phonetic transcription of the spoken language. Students learn and frequently practice transcription of vowels and consonants at the levels of isolation, syllables, words, phrases, and connected speech. The course also covers relevant material about phonetics as a science, the similarities and differences between spelling and sound, the anatomy and physiology of the speech mechanism, clinical phonetics, and dialectal variation in the spoken language.

SPA 4255. Developmental Communication Disorders (3). This course places disorders in perspective, defines basic theories of causation, introduces identifying characteristics, and presents an overview of procedures for evaluation and treatment. Topics include cultural and linguistic diversity, evidence-based practice, and current trends in the discipline.

SPA 4257. Acquired Communication Disorders (3). This course introduces the principles and procedures involved with diagnosis and treatment of adults with communication disorders. Students in this course develop a fundamental knowledge of voice disorders, dysphagia, head and neck cancer, neurogenic communication disorders, motor speech disorders, language disorders, and cognitive-linguistic disorders.

SPA 4302. Introduction to Clinical Audiology (3). This course is an introduction to disorders of hearing and the measurement of hearing loss by pure-tone, speech, and impedance audiometry.

SPA 4302L. Introduction to Clinical Audiology Laboratory (1). (S/U grade only.) Pre- or corequisite: SPA 4302. This course is the practical application of the techniques learned in SPA 4302.

SPA 4321. Aural (Re)habilitation I (3). Prerequisite: SPA 4302. This course examines diagnostic-evaluation and (re)habilitation techniques.

SPA 4431. Nature of Autism and Severe Communication Disorders (3). This course provides class participants with an overview of the characteristics and etiology of autism spectrum disorders and the knowledge needed to develop effective communication and language assessment and intervention strategies for individuals with autism and severe communication disabilities.

SPA 4470. Bilingual Assessment: Building Language & Literacy with Dual Language Learners (3). This course is part of a series designed to equip students with the foundational knowledge and skills to be able to approach assessment with bilingual children from an evidence-based mindset. The in-class serves as an accompaniment to weekly supervised experiences working with bilingual children or adults.

SPA 4477. Bilingual Intervention: Building Language & Literacy with Dual Language Learners (3). This seminar provides an overview of evidence-based practices for assessing and intervening with bilingual children with communication problems. This course is part of a series that quips students with the foundational knowledge and skills to be able to approach clinical practice with bilingual children from an evidence-based mindset.

SPA 4477Lr. Applied Clinical and Research Practicum in Bilingual Speech-Language Pathology (1-6). (S/U grade only.) This course develops with applied clinical skills and research tools needed to provide evidence-based services to bilingual children and English learners (Els). Practicum experiences support pre-service training of speech-language pathologists with specialized knowledge and skills in speech, language, and literacy needs of a high-need population. The applied practicum provides opportunities for direct exposure to, practice with, and feedback on use of research-based bilingual assessment and intervention. May be repeated to a maximum of six (6) credit hours.

SPA 4556r. Practicum in Developmental Disabilities (3). This course is designed to provide a field experience for undergraduate students to gain an understanding of the services available to help people with developmental disabilities. May be repeated to a maximum of six semester hours.

SPA 4800. Research Evaluation (3). This course explores elements of quantitative research and application of psychophysiological research methods to human communication problems.

SPA 4905r. Directed Individual Study (1–3). May be repeated to a maximum of eight semester hours. May be repeated within the same semester.

SPA 4930r. Undergraduate Seminar in Communication Disorders (1–3). Prerequisite: Instructor permission. This seminar provides undergraduate students with information on critical issues in the profession or information on innovative methodologies in the remediation of communication disorders. May be repeated to a maximum of six semester hours.

SPA 4970r. Honors Thesis in Communication Disorders (1–6). Prerequisites: Admission to honors program and admission to the School of Communication Science and Disorders. This course is available to seniors who are majoring in communication disorders and who are interested in undertaking independent and original research under the direction of a faculty member whose area of expertise matches the student's interest. May be repeated to a maximum of nine semester hours.

Graduate Courses

SPA 5005. Communication Science & Disorders: Assessment & Treatment (3).
SPA 5009. Normal Communication Development and Disorders (4).
SPA 5012. Introduction to Communication Science (4).
SPA 5033. Introduction to Clinical Audiology (4).
SPA 5055r. Professional Tools in Speech-Language Pathology (1–3).
SPA 5102. Neurological Basis of Communication (4).
SPA 5103. Anatomy and Physiology: Speech, Language, and Hearing (4).
SPA 5113. Clinical Phonetics (4).
SPA 5204. Phonological Disorders (3).
SPA 5211. Voice Disorders (3).
SPA 5225. Fluency Disorders (3).
SPA 5230. Motor Speech Disorders (3).
SPA 5252. Speech Production and Swallowing Disorders (3).
SPA 5254. Acquired Neurolinguistic and Cognitive Disorders (3).
SPA 5256. Developmental Speech Disorders (3).
SPA 5305Lr. Measurement and Management of Impaired Hearing (1–3).
SPA 5322. Advanced Aural (Re)habilitation (3).
SPA 5401. Communication Intervention: Infants and Preschoolers (3).
SPA 5403. Language-Learning Disabilities in School-Age Children (3).
SPA 5432. Autism and Severe Communicative Disabilities (3).
SPA 5436. Nature of Autism (3).
SPA 5460. Foundations of Developmental Communication Disorders (3).
SPA 5462. Developmental Communication Disorders: School-Age Issues (3).
SPA 5500. Clinical Practicum in the Schools (3).
SPA 5505r. Advanced Clinical Practicum (1–4).
SPA 5522. Medical Speech Pathology (3).
SPA 5526L. Laboratory in Child Speech-Language Diagnostics (1–3).
SPA 5528Lr. Laboratory in Adult Speech-Language Diagnostics (1–3).
SPA 5553. Seminar in Clinical Differential Diagnostics (2).
SPA 5554. Counseling in Speech-Language Pathology (3).
SPA 5554Lr. Supervision and Counseling in Communication Disorders (1).
SPA 5559. Augmentative Communication Systems (3).
SPA 5562. Advanced Seminar in Augmentative and Alternative Communication (1–3).
SPA 5565. Seminar in Dysphagia (3).
SPA 5646. Communication for Persons Deaf and Hard of Hearing (3).
SPA 5906r. Directed Individual Study (1–3). (S/U grade only.)
SPA 5910r. Supervised Research (1–5). (S/U grade only.)
SPA 5940r. Supervised Teaching (1–5). (S/U grade only.)
SPA 5941r. Beginning Speech-Language Pathology Practicum (1–4). (S/U grade only.)
SPA 5942r. Community Clinical Practicum (1–4).
SPA 5944. Speech-Language Pathology Internship (1–12). (S/U grade only.)
SPA 6140. Seminar in Experimental Phonetics (1–3).
SPA 6231r. Seminar in Neuropathologies (1–3).
SPA 6434r. Seminar on Developmental Disabilities (1–3).
SPA 6804. University Academic and Clinical Teaching Colloquium (0–2). (S/U grade only.)
SPA 6805r. Seminar in Clinical Research Methods (3).
SPA 6825r. Seminar in Speech Pathology (1–3).
SPA 6841r. Seminar in Language (1–3).
SPA 6900r. Readings for the Preliminary Examination (1–6). (S/U grade only.)
SPA 6930r. Seminar in Special Topics (1–3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of COMPUTER SCIENCE

College of Arts and Sciences

Website: *http://www.cs.fsu.edu/*

Chair: Xin Yuan; **Professors:** Aggarwal, Burmester, Hawkes, Liu, Mascagni, G. Tyson, A. Wang, Whalley, Yu, Yuan, Z. Zhang; **Associate Professors:** Duan, Haiduc, Kumar, Schwartz, Z. Wang, Yang, Zhao; **Assistant Professors:** Chakraborty, Fedyukovich, Gao, Gubanov, Hoang, Kuhnle, J. Zhang: **Courtesy Professors:** De Medeiros, Imam, Jones, Li, Oral, Pakin, Srinivasan, Venkata, Wang; **Teaching Faculty III:** Langley, R. Myers, A. Tyson; **Teaching Faculty II:** M. Myers; **Teaching Faculty I:** Dorai, Jayaraman, Mills; **Professors Emeriti:** Baker, Lacher, Leach, Levitz, Stoecklin; **Panama City Faculty:** Gaitros, Uh, Works

In computer science education, whether graduate or undergraduate, currency is essential. Computer science is an exceptionally fast-moving field where knowledge is subject to rapid obsolescence and ideas progress swiftly from research to practice. The department therefore seeks to offer technical instruction that stays on the cutting edge of new developments while simultaneously providing each student with a core of intellectual tools that will never become obsolete. The department views skills in communication, mathematics, and algorithmic reasoning as central and the understanding of underlying principles as more important than familiarity with specific technical products. Still, direct hands-on experience is essential to mastering these skills and principles. If students are to be adequately prepared for careers in computer science, they should have extensive experience with machines and software that are state-of-the-art.

The Department of Computer Science offers undergraduate and graduate programs leading to the Bachelor of Science (BS) and Bachelor of Arts (BA) degrees, and the Master of Science (MS) and Doctor of Philosophy (PhD) degrees.

The Department has a number of active research programs across the spectrum of computing, including: artificial intelligence, computer architecture, computer graphics, compilers, networks and tools for distributed applications, parallel computation, databases and data mining, operating systems, algorithms, scientific problem solving environments, large-scale scientific computation and databases, computer and network security (including cryptography), computer forensics, computer vision, applied computational geometry, random number generation and Monte Carlo methods, as well as applications of fuzzy relations and non-classical logics. These research programs enjoy external support from agencies ranging from the National Science Foundation to the private sector.

The Department of Computer Science has a full range of computing facilities available for instruction and research. Faculty and students share multiple groups of high-performance workstations, file servers, and computer servers over departmental LANs. Students and faculty whose research requires greater computational power have a variety of such equipment and may access other machines, including supercomputers and computer clusters, across the University.

Affiliated research laboratories and research groups include the following:

- **The Center for Security and Assurance in Information Technology (C-SAIT) Laboratory** (*http://sait.fsu.edu*) is dedicated to synthesis of education and research through the combined focus on theory and application of information security techniques.
- **The Mobile Lab** (*http://mobile.cs.fsu.edu*) investigates mobile computing and develops mobile and web applications for all platforms, with special emphasis on Android and iOS.
- **The Computer Architecture and SysTems Research Laboratory (CASTL)** (*http://castl.cs.fsu.edu/*) has broad research interests in novel architectural and system technologies for big data analytics, cloud computing, high-performance computer and network systems, and the use of these technologies for fast scientific discoveries on computational biology and climate changes.
- **The EXPLORER (EXtreme-scale comPuting, modeLing, netwORk & systEms Research) laboratory** *(http://explorer.cs.fsu.edu)* explores cutting-edge technologies for designing, evaluating, constructing, programming, and using extreme-scale distributed computing systems including super-computing systems, cloud computing data centers, networked computing systems, heterogeneous computing systems, and Internet of things.
- The **Serene** (Software EngineeRing: EvolutioN and maintEnance) Laboratory *(http://www.cs.fsu.edu/~serene/)* is dedicated to research in the field of Software Engineering and focusing on novel approaches and techniques to assist software developers in undertaking tasks common to the creation, understanding and maintenance of increasingly large software systems.
- **The Applied Computer Vision Laboratory** (*http://cavis.fsu.edu*) develops novel and mathematically sound representations, modeling, and computational algorithms for computer vision, image analysis, and pattern recognition with direct medical, biological, and real-time video and image analysis applications.
- **The E-Crime Investigative Technologies (ECIT)** conducts research in support of digital forensics investigations. It develops new technologies and forensic tools to address real-world problems related to electronic or digital crime. ECIT often works closely with the Florida Department of Law Enforcement and with the National White Collar Crime Center.

Degrees Offered

The Department of Computer Science offers programs leading to the Bachelor of Science (BS) and Bachelor of Arts (BA) degrees, the Master of Science (MS) degree, and the Doctor of Philosophy (PhD) degree in Computer Science (CS). At the bachelor and master levels, programs of study are available for those who plan to work toward higher degrees, as well as for students planning on careers as computing professionals.

The department also offers three Combined Bachelor's/Master's Pathways: Computer Science BS/MS, Computer Science BA/Cyber Criminology MS, and Cyber Criminology BS/MS, designed for academically strong students who wish to pursue an accelerated program culminating in a bachelor's degree and an MS degree in Computer Science or Cyber Criminology. Students who have reached junior status and have at least a minimum 2.5 GPA at FSU and a minimum 3.5 GPA in major coursework should contact the CS undergraduate advisor for more information.

Additionally, the department offers a Computer Programing and Applications BA major intended to allow students to choose from a variety of electives to create the academic plan that best suits their needs. The department also offers two interdisciplinary degrees.

In conjunction with the Department of Biological Science, the department offers an interdisciplinary BS degree in Computational Biology. The purpose of this interdisciplinary major is to provide a top-notch educational program for students interested in the areas of computational biology and bioinformatics. The program seeks to achieve two goals: (1) to develop an understanding of the issues associated with developing biologically meaningful computational models, and (2) to give students the broad-based education that is needed to create a set of models directed toward solving a practical biomedical problem.

In conjunction with the College of Criminology and Criminal Justice, the department offers an interdisciplinary BS degree in Cyber Criminology. This program teaches students to understand the emerging problem of cyber-related crime as well as how computers can assist in the prevention, detection, and apprehension of cyber-crime perpetrators.

In conjunction with the College of Education, the department offers the CS-Math/FSU-Teach major. This double major with Education helps prepare students to teach Math and Computer Science at the secondary level, i.e., middle and high school.

In each of the undergraduate degree programs within the Department of Computer Science, students must meet all applicable University and College requirements and, unless otherwise specified, coursework required for the major must be completed with a "C–" or better. **No CGS courses, individual instruction courses such as CIS 3949r, Cooperative Education Work Experience, and CIS 4900r, Directed Individual Study, will count toward the requirements for Computer Science BS, Computer Science BA, Cyber Criminology or Computational Biology; CGS courses may count toward the requirements for the BA in Computer Programming and Applications.** Computational Biology and Cyber Criminology students who have major codes within the Department of Biological Science or the College of Criminology are subject to the rules and requirements of those institutions. All students graduating from the Department of Computer Science are required to complete an exit survey in the semester prior to graduation.

Currently, Computer Science has no restrictions on the number of hours that can overlap with another major.

Note: All degree requirements stated are subject to change. Please refer to *http://www.cs.fsu.edu/academics/undergraduate-programs/* for the most current information.

Accreditation

The BS degree program in computer science is accredited as a computer science degree program by the Computing Accreditation Commission of ABET, *http://www.abet.org*. Note that ABET views the BS and BA as distinct

degree programs, and that this accreditation is specifically for the BS degrees program in CS and is not applicable to the BA degree in CS or the degrees in computational biology or cyber criminology.

Distance Learning

Some undergraduate degree programs in Computer Science are available through Internet-supported distance learning. Certain limitations regarding students seeking admission to upper-division studies in the Computer Science Department apply. For more information contact Florida State University's Office of Distance Learning (ODL) at *http://distance.fsu.edu/*.

Honors in the Major

The Department of Computer Science offers a program in honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, and each major determines the courses needed to satisfy this requirement. Undergraduate computer science, computational biology, and cyber criminology majors must satisfy this requirement by earning a grade of "C–" or higher in COP 3014 or COP 3363.

Note: The Department of Computer Science offers several courses, including CGS 2060, CGS 2100, CGS 3406, COP 3014, and COP 3363, which are intended to meet the Computer Skills Competency requirement for students in other majors. However, students should check with their major department whether any of these courses are designated as satisfying the computer skills competency in their major.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Computer Science, BS

1. COP XXXX: one introductory programming course for three credit hours in C, C++, Java, or an equivalent programming language
2. XXX XXXX: one science course for two to four credit hours for science majors.
3. MAC X311
4. MAC X312
5. PHY X048/X048L and PHY X049/X049L, or PHY X048C and PHY X049C, or BSC X010 and BSC X011 and CHM X045C, or BSCX010 and BSCX011 and CHMX045/X045L

Note: Students who follow the BSCX010/BSCX011/CHMX045C option who choose to complete both BSCX010L and BSCX011L will satisfy the "Science for Science Majors" requirement.

Computer Science, BA

The above requirements are only required for the computer science BS major. The below requirements are only for the computer science BA major.

1. MAC X140
2. MAC X311

Computer Programming and Applications, BA

1. MAC X311

Computational Biology (Bioinformatics)

1. BSC X010 or BSC X040 or PCB X011
2. BSC X011 or BSC X041
3. CHM X045/X045L or CHM X045C, or CHM X040 and CHM X041
4. CHM X046/X046L or CHM X046C
5. PHY X048/X048L or PHY X053/X053L
6. PHY X049/X049L or PHY X054/X054L
7. MAC X311
8. MAC X312

Cyber Criminology

1. COP XXXX: one course for three credit hours in computer programming
2. MAC X105
3. MAC X140

College Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*, as well as all University-wide requirements.

Requirements for the BS and BA Degree Programs in Computer Science

There are four majors for the CS bachelor's degree: the BS in computer science (BS CS), the BA in computer science (BA CS), the BA in Computer Programming and Applications (BA CPA), and the BA in Computer Science-Math/FSU-Teach (BA CSMFT). A distance-learning version of the BS in computer science (CS BS) and the BA in computer science (CS BA) are offered through the Panama City campus.

The undergraduate programs in computer science are limited access, requiring a minimum 2.65 all college-level work attempted GPA for formal admission to the BS CS, BA CS, and BA CPA majors. A minimum 2.5 all college-level work attempted GPA is required for formal admission to the BA CSMFT major. All State Common Program Prerequisites listed as Term 1–4 milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

Upon formal admission into the program, the student must:

- Complete all courses required for the major with a grade of "C–" or better;
- Maintain a 2.5 all-college-level-work-attempted GPA, excluding the Term 1–4 State Common Prerequisites milestone courses;
- Not receive more than 3 unsatisfactory grades combined in Programming I (COP 3014 or COP 3363) and Object-Oriented Programming (COP 3330);
- Not accumulate more than 5 unsatisfactory grades (U, F, D–, D, or D+) in courses required for the major, excluding the Term 1–4 State Common Prerequisites milestone courses, taken after entering the program.

Core Requirements - BS and BA in Computer Science

In addition to all University and College of Arts and Sciences requirements, the common program prerequisites stated above, and the courses specific to each major that are listed separately under the respective headings below, all CS BA and CS BS students must complete the following core courses:

- MAD 2104 Discrete Mathematics I (3)
- CDA 3100 Computer Organization I (3)
- CEN 4020 Software Engineering I (4)
- COP 3014 Programming I (3)
- COP 3330 Object Oriented Programming (3)
- COP 3353 Introduction to Unix (1)
- COP 4530 Data Structures, Algorithms, and Generic Programming (3)
- COP 4610 Operating Systems and Concurrent Programming (3)

Students may complete COP 3363 (3) in Programming I in place of COP 3014 (3) Programming I and COP 3353 (1) Unix to complete the requirement for these courses.

Both of the majors in Computer Science require that one of the computer science electives cover an additional programming language not covered in COP 3014–3330.

Non-major students completing CGS 3406 with an "A" or "A–" can count this as full credit for COP 3014 when transferring into a major offered by the Computer Science Department.

Additional Requirements for BS Computer Science Major

In addition to the core requirements described above and the common prerequisites for this major, each student must complete:

- MAD 3105 Discrete Mathematics II (3)
- COT 4420 Theory of Computation (3)
- CIS 3250 Ethics and Computer Science (3)
- STA 3032, 4321, or 4442.
- At least twenty-three semester hours of computer science electives (up to two semester hours can be CIS 4900r), at least fifteen of which must be at the 4000 level (excluding CIS 4900r); one of the 4000-level computer science electives may be replaced with an advanced math elective (which must be a mathematics or statistics course with Calculus II (MAC 2312) or Discrete Mathematics II (MAD 3105) as a prerequisite). The required collateral courses in mathematics, physics, and statistics constitute an acceptable interdisciplinary minor for students in this major.

Additional Requirements for BA Computer Science Major

In addition to the core requirements described above and the common prerequisites for this major, each student must complete:

- At least seventeen semester hours of computer science electives, at least twelve of which must be at the 4000 level, where up to two hours can be from CIS 4900.
- At least nine semester hours in the fields of humanities and history, in addition to those taken to satisfy the liberal studies and foreign language requirement;
- A minor approved by the department.

The general electives and additional courses in the humanities and history may be applied toward satisfaction of the minor requirement. Students should contact the CS undergraduate advisor for information concerning acceptable minors. Additional general electives are required to bring the total credits to 120 hours.

Note: Because of reduced requirements in mathematics and theoretical computer science, students graduating with the BA in CS who wish to be admitted to the graduate program in CS at FSU may be required to take remedial undergraduate courses (*http://www.cs.fsu.edu/academics/graduate-programs/undergraduate-pre-requisites/*), like students from other closely related majors such as Mathematics and Computer Engineering.

Requirements for the BS Degree Program in Computational Biology

In addition to the common prerequisites for this major, students must complete the following courses from biological sciences: BSC 2010, BSC 2011, and PCB 3063, for a total of nine hours.

From computer science, students must complete CDA 3100, COP 3014, COP 3330, COP 3353, and COP 4530, for a total of thirteen hours. Students may complete COP 3363 (3) in Programming I in place of COP 3014 (3) Programming I and COP 3353 (1) Unix to complete the requirement for these courses.

Students must complete an additional twenty-four hours of electives chosen from Biology, Computer Science, Math and/or Statistics. The Computer Science electives may be chosen from COP 4710, COP 4420, and CIS 4900r. Biology electives are chosen from BOT 4394, BSC 2010L, BSC 2011L, BSC 3402L, BSC 4613, BSC 4900r, BSC 4933, MCB 4403, MCB 4403L, PCB 3134, PCB 3743, PCB 4024, PCB 4233, PCB 4253, PCB 4674, or PCB 4843. The math electives are chosen from MAC 2312, MAC 2313, MAP 2480, or MAP 4481. The Statistics electives are chosen from STA 4102, STA 4103, STA 4202, STA 4203, STA 4502, or STA 4702.

In addition, the following must be completed: Mathematics: MAC 2311 and MAD 2104 totaling seven hours; Statistics: STA 2122, STA 2171, or STA 4442 totaling three hours; Chemistry: CHM 1045, CHM 1045L, CHM 1046, and CHM 1046L totaling eight hours.

Requirements for the BS Degree Program in Cyber Criminology

With the exception of CCJ 2020, CCJ 3011, and CCJ 4700, which must be passed with a "C" or better, all courses required for the major must be completed with a grade of "C-" or better.

In addition to the common prerequisites for this major, students must complete the following core from computer science: COP 3014, COP 3353, COP 3330, and CIS 4360, totaling ten hours. Students may complete COP 3363 (3) in Programming I in place of COP 3014 (3) Programming I and COP 3353 (1) Unix to complete the requirement for these courses.

A total of twelve elective hours must be completed, chosen from CDA 3100, CIS 3250, CNT 4406, CNT 4504, CNT 4603, COP 3252, COP 4342, COP 4530, COP 4610, and COP 4710. The capstone course CIS 4385 must be completed for three credits.

From criminology, students must complete the following core: CCJ 2020, CCJ 3011, CCJ 4700, CCJ 4938, and CJE 3110 totaling twelve hours. A total of nine elective hours must be completed, chosen from CCJ 3644, CCJ 3666, CCJ 4497, CCJ 4614, CJC 3010, CJE 4610, CJJ 4010, CJL 3510, and CJL 4064. The capstone course CCJ 4938, CJ System Responses to Cybercrime, must be completed for three credits.

In mathematics, students must complete MAC 2311 AND MAD 2104 for seven hours.

Requirements for the BA Computer Programming and Applications Major

All courses required for the major must be completed with a grade of "C–" or better.

In addition to the common prerequisites for this major, students must complete the following core from computer science: COP 3014, COP 3353, COP 3330, COP 4530, CEN 4020, CEN 4090L, and CDA 3100, totaling sixteen hours. Students may complete COP 3363 (3) in Programming I in place of COP 3014 (3) Programming I and COP 3353 (1) Unix to complete the requirement for these courses.

A total of twenty-four elective hours must be completed in the Computer Science department. Six hours of these electives must be programming language electives. At least twenty-one hours of elective coursework must be numbered above 3000.

In mathematics, students must complete MAC 2311 and MAD 2104 for seven hours.

Students must complete a minor approved by the department and at least nine semester hours in the fields of humanities and history, in addition to those taken to satisfy the liberal studies and foreign language requirement.

The general electives and additional courses in the humanities and history may be applied toward satisfaction of the minor requirement. Students should contact the CS undergraduate advisor for information concerning acceptable minors. Additional general electives are required to bring the total credits to 120 hours.

Requirements for a Minor in Computer Science

Students pursuing a minor in Computer Science may choose one of two sets of computer science courses preapproved by the department: the General Track (twelve hours) or the Science Track (thirteen hours). Courses outside of the preapproved tracks must be approved in advance (in writing) by the department. Students must also satisfy stated prerequisites before enrolling in any computer science course. A grade of "C–" or higher must be earned in each course counted toward the minor. For more information on the minor, including preapproved courses, see *http://www.cs.fsu.edu/academics/undergraduate-programs/minor-in-computer-science.*

Definition of Prefixes

CAP—Computer Applications
CDA—Computer Design/Architecture
CEN—Computer Software Engineering
CGS—Computer General Studies
CIS—Computer Science and Information Systems
CNT—Computer Networks
COP—Computer Programming
COT—Computing Theory
ISC—Interdisciplinary Sciences

Undergraduate Courses

Note: Certain courses are sometimes offered in a distributed format and as such are available to distance learning students in addition to residential students. Contact the Computer Science Department for details or go to *http://www.cs.fsu.edu.*

CAP 4601. Introduction to Artificial Intelligence (3). Corequisite: COP 4530. This first course in Artificial Intelligence (AI) is designed to expose the student to both the breadth and depth of the subject. Topics include problem solving, knowledge and reasoning, acting logically, uncertain knowledge and reasoning, learning, and communicating, perceiving and acting.

CAP 4730. Computer Graphics (3). Corequisite: COP 4530. This course covers the fundamental hardware and software elements of computer graphics systems, including intelligent terminals, communication, and graphic languages; cost effective use of interactive graphics; CAD/CAM; office automation; and computer animation.

CDA 3100. Computer Organization I (3). Corequisite: COP 3330. This course is intended for computer science majors with a previous C/C++ background. It introduces fundamental concepts in computer organization and digital logic design, including number representation, instruction set architecture, logic gates and design, datapath and control, pipeline, memory hierarchy, the machine instruction execution cycle, and performance measures and assessment.

CDA 3101. Computer Organization II (3). Prerequisite: CDA 3100. This course explores the fundamental concepts in processor design, including datapath and control, pipelining, memory hierarchies, and I/O.

CDA 4150. Computer Architecture (3). Prerequisite: CDA 3101. This course explores high performance architecture design and analysis, including memory-system design, pipelining, vector computers, and multiprocessors.

CEN 4020. Software Engineering I (3). Prerequisite: COP 4530. This course starts with a rigorous study of object oriented design techniques and an introduction to current practices in Software Engineer. By the end of the course, students participate in a group design project putting into practice what they have learned to date. Topics include UML, Object Oriented Design, theory and practice of software engineering, ethics in Computer Science and Software Engineering, Software Engineering tools, requirements elicitation, software-requirements specification, requirements review, software development, software-development life cycle, teams, and project management. This course satisfies the University's Scholarship in Practice as well as the Upper Division Writing requirements.

CEN 4021. Software Engineering II (3). Prerequisite: CEN 4020. This course is the second of a two-semester sequence on project-system development and focuses on software design and implementation. Topics include software design, architectures, testing, deployment, metrics, configuration management, reusability, portability, and interoperability.

CEN 4090L. Software Engineering Capstone Project (1). Prerequisite: COP 4530. Corequisite: CEN 4020. In this course, students apply their software engineering, programming, and teamworking skills in a semester-long group project to design and implement an original software system from scratch. The team project exposes students to working in groups on a larger project and the complexity of communications among multiple participants.

CEN 4681. Expert Systems (3). Corequisite: COP 4530. This course covers definitions and historical development, methodology tools for analysis and design, survey of existing systems, inference engines, and theory and applications of fuzzy relational products to new developments in inference engines.

CGS 2060. Computer Fluency (3). This course teaches important computer and digital technology concepts and skills necessary to succeed in careers and in life. Course topics range from computer literacy basics, to today's technologies, and to the information systems on which today's businesses and organizations depend. Students learn about telecommunications, the Internet and the Web, management information systems, digital media, information security, digital society, as well as ethics.

CGS 2100. Microcomputer Applications for Business/Economics (3). This course enables students in business and economics to become proficient with microcomputer hardware and software applications that are typically used in the workplace. The following topics are covered: hardware concepts, operating systems, word-processing, spreadsheets, databases, networks, Internet, World Wide Web, multi-media presentations, and information systems. May not be applied toward computer science major or minor. Not open to students with credit in CGS 2060.

CGS 2930r. Special Topics for Non-Majors (1–3). This course covers special topics for non-majors. Topics may vary. This course is repeatable in a single semester with instructor permission. May be repeated to a maximum of three semester hours.

CGS 3066. Web Programming and Design (3). This course provides an overview of Internet communications and information services, as well as the technologies on which the Internet and Web are built. The course emphasizes Web design, development, and programming with participants learning the latest tools and techniques for building professional-grade, dynamic, and interactive Web pages and sites.

CGS 3406. Object-Oriented Programming in C++ (3). Prerequisite: MAC 1105. This course covers a brief introduction to computers, C++ basics, procedural abstraction and functions, an introduction to the object-oriented paradigm, namespaces, arrays, strings and vectors, pointers, and recursion. Emphasis is on program problem-solving. May not be applied toward a computer science major.

CGS 3416. Java Programming for Non-specialists (3). Prerequisite: MAC 1105. This course covers Java basics, a review of structured and object-oriented programming concepts, classes, constructors, interfaces, exceptions, I/O, graphics concepts, jar files, compilation, virtual machines, applications, applets, APIs, HTML, XML, and XHTML.

CGS 4092. Ethical Issues in Computer Science (2). Prerequisite: A course in computer programming. This theory and skills course is intended for students with a basic knowledge of computer science principles and programming languages. The course introduces fundamental concepts and analytical methods in ethics, along with ethical, legal, and social issues and questions in computer science that call for ethical analysis.

CIS 3250. Ethics and Computer Science (3). This course presents basic ethical theories and analysis methods as they apply to ethical, social, and legal issues in computing and information technology. Case studies and hypothetical scenarios are discussed for their social, ethical, and legal implications, as well as analyzed through various ethical-analysis methodologies. The course fosters the development of skills in logical and critical analysis of issues and viewpoints.

CIS 3250L. Ethics and Computer Science Public Speaking Lab (1). Corequisite: CIS 3250. Note: Corequisite can be waived if the student already has credit for an Ethics course. This course teaches students to understand and apply basic principles of effective public speaking and audience analysis. This course is an introduction to speech communication with emphasis on public speaking, including techniques to lessen speaker anxiety, and the use of visual aids to enhance speaker presentations. This course prepares students for success in typical public speaking situations and provides them with the basic principles of organization and research needed for effective speeches.

CIS 3931r. Intermediate Topics in Computer Science (2–3). This course analyzes intermediate topics in the area of computer science. The course may be used as a self-contained study of a programming language in the context of applications for which the language is particularly suited. Topics and prerequisites vary from term to term and section to section. May be repeated to a maximum of nine semester hours.

CIS 3943r. Internship in Computer Science (3–6). (S/U grade only.) Prerequisites: COP 4530; successful completion of sixty hours of coursework with a minimum overall GPA of 3.0, including fifteen hours in computer science courses with a minimum GPA of 3.2; and internship coordinator permission. This course involves field placement in an approved industry or government entity having a significant information technology or computer science component. May be taken for variable credit and repeated (with departmental approval), but only three semester hours may count towards graduation. Successful completion requires satisfactory job evaluation and a demonstration of the educational value gained through the placement, usually through a paper and/or presentation. May be repeated to a maximum of (12) credit hours; repeatable within the same term.

CIS 4138. Introduction to Software Reverse Engineering and Malware Analysis (3). Prerequisite: CDA 3100. This introductory course provides comprehensive coverage of fundamental problems, principles, and techniques in software reverse engineering of binaries including static analysis techniques, disassembly algorithms, dynamic analysis techniques, automated static and dynamic analysis techniques, malware analysis techniques, anti-analysis techniques, and malware obfuscation and packing techniques; many of the techniques will be demonstrated and practiced using IDA. The course also involves analyzing malware samples.

CIS 4360. Computer Security Fundamentals (3). Prerequisite: COP 4530. This is an undergraduate-level introduction to computer security, targeted towards seniors and advanced juniors. This course covers a broad range of topics within computer security, such as cryptographic algorithms, security protocols, network authentication, and software security.

CIS 4385. Cybercrime Detection and Forensics (3). Prerequisites: CIS 4360 and CJE 3110. This course discusses tools, techniques, and procedures for detecting cybercrime and analyzing collected data related to past and on-going cyber offenses, along with preserving the legal value of the collected evidence.

CIS 4403. Introduction to Computer Security for Non-CS Majors (3). This course is an introduction to computer security. The course covers fundamental issues and first principles and practices of computer security; particularly the security policies, models and mechanisms related to the confidentiality, integrity, authentication and availability of computer systems.

CIS 4626. Introduction to Offensive Computer Security (3). Prerequisite: CDA 3100. This course provides introductory but comprehensive coverage of fundamental problems, principles, and techniques in offensive computer security including various buffer overflow techniques, format string techniques, basic networking techniques, shellcode development, web application exploitation, software reverse engineering, fuzzing techniques, social engineering techniques, and then commonly used tools for penetration testing with an emphasis on their principles and fundamental techniques.

CIS 4900r. Directed Individual Study (1–4). May be repeated to a maximum of twelve semester hours.

CIS 4930r. Special Topics in Computer Science (3). Prerequisite: COP 4530. May be repeated to a maximum of six semester hours. May be repeated within the same semester.

CIS 4933r. Honors Work (3). May be repeated to a maximum of nine (9) credit hours; repeatable within the same term.

CNT 4406. Network Security and Cryptography (3). Corequisite: COP 4530. This course examines threats to computer networks, network vulnerabilities, techniques for strengthening passive defenses, tools for establishing an active network defense, and policies for enhancing forensic analysis of crimes and attacks on computer networks. Topics include private and public key cryptography, digital signatures, secret sharing, security protocols, formal methods for analyzing network security, electronic mail security, firewalls, intrusion detection, Internet privacy, and public key infrastructures.

CNT 4504. Introduction to Computer Networks (3). Corequisite: COP 4530. This course covers circuit-switched and packet switched networks; protocols; protocol layering; application layer and socket programming; transport layer, multiplexing and demultiplexing, UDP, TCP, reliability, flow control, and congestion control; network layer, routing protocols, switching technologies, multicast, and mobility; link layer, local area networks, error detection and correction; wireless networks; multimedia networking; network security; network management.

CNT 4603. Computer and Network System Administration (3). Prerequisite: CGS 3406 or COP 3014. This course offers a hands-on introduction to Unix and Microsoft Windows systems and network administration. Topics include installation, maintenance, and extension of a multi-user computer system; development of administrative policies and procedures; user assistance and education; specifics of the Unix and Windows operating systems; and practical troubleshooting and problem solving.

COP 3014. Programming I (3). Prerequisite: MAC 1140. This course covers fundamental concepts and skills of programming in a high-level language. Flow of control: sequence, selection, iteration, subprograms. Data structures: arrays, strings, structs, ADT lists and tables. Algorithms using selection and iteration (decision making, finding maxima and minima, basic searching and sorting, simulation, etc.). Good program design using a procedural paradigm, structure, and style are emphasized. Interactive and file IO. Testing and debugging techniques. Intended primarily for computer science or computer engineering majors, or anyone who is required to take COP 3330.

COP 3035. Introduction to Programming Using Python (3). Prerequisite: MAC 1105. This course includes Python basics, use of Python control and data structures, use of Python functions, Python I/O, and implementation of basic Python programming tasks.

COP 3252. Advanced Programming with Java (3). Prerequisite: COP 3330. This course offers instruction in advanced programming using Java/ This course assumes the student is conversant with C++. The course covers the core features of the Java language, together with as many advanced topics as time permits.

COP 3330. Data Structures, Algorithms, and Generic Programming I (3). Prerequisite: COP 3014 or a comparable course in C or C++ programming. Corequisite: COP 3353. This course focuses on object-oriented programming in a modern programming language; classes, objects, inheritance, and polymorphism; introduction to data structures and container classes.

COP 3353. Introduction to UNIX (1). This course for majors and non-majors offers an introduction to the UNIX operating system. Topics include: UNIX history, requesting UNIX accounts, logging into a UNIX system, basic operating system concepts and file structure, basic commands, text editor(s) (to include emacs, vi, and pico), printing, mail, and online help. The goals of this course are to enable students to log in to their UNIX accounts from any type of computer and have a basic understanding of the commands and utilities.

COP 3363. Introduction to Programming in C++ for Majors (3). Prerequisite: MAC 1140 or higher; or instructor permission. This course covers fundamental concepts and skills of programming in C++ in the Unix Environment. This course is primarily for Computer Science majors who are taking upper division CS courses. Students are also instructed on efficient program design using a combination of procedural and Object Oriented paradigms.

COP 3502. Introduction to Computer Science (3). Prerequisites: MAC 1105 and previous computer experience. This course covers basic computer organization; computer languages and software; language translation and interpretation; object oriented design; object oriented programming, classes, objects, and inheritance; file systems; and I/O. May not be applied toward a major in computer science.

COP 4020. Programming Languages (3). Corequisite: COP 4530. This course covers the principles of programming languages, including language constructs, syntactic and semantic specification methods, runtime structures, implementation techniques, and alternative programming paradigms. The course involves programming assignments in a variety of languages and individual investigations accompanied by a required written report and oral presentation.

COP 4046C. Python Programming (3). Prerequisite: COP 3330. Corequisite: COP 4530. This course covers intermediate level Python. Students are expected to know the material taught in COP4530, and to be comfortable with the programming material taught in COP3330. The course includes lectures on the Python language and development environment, and covers select Python modules that demonstrate the versatility of the Python language. Some topics that are covered include types and operations, functions, modules and libraries, text processing, functional programming, object oriented programming, testing, debugging, performance tuning, and algorithm implementations in Python.

COP 4342. Unix Tools (3). Prerequisite: COP 3330. This course is an introduction to selected Unix tools and utilities that are useful for advanced users, programmers, and system administrators, such as shell scripts, the perl language, revision control systems, debuggers, editors, and the make, awk, sed, and expect utilities.

COP 4380. Reactive Systems Programming (3). Prerequisite: COP 4530. Corequisite: COP 4610 or instructor permission. This course covers the theory of Hierarchical State Machines [HSM] and the use of HSM to model and implement Reactive Systems [RS]. The course explores implementations of HSM in C, C++, and Java. HSM are applied for modeling and implementing RS including real-time, multi-threaded, and embedded systems.

COP 4530. Data Structures, Algorithms and Generic Programming (3). Prerequisites: COP 3330 and MAD 2104. Pre- or corequisite: CDA 3100. This course focuses on definition, use, and implementation of generic data structures using a modern programming language; reusable program components.

COP 4521. Secure Parallel and Distributed Computing with Python (3). Prerequisite: COP 4530. This course explores Python, a very popular and versatile programming language with applications across a variety of domains. This programming language owes its popularity to its ease of use and a large and dynamic list of third-party libraries. This course explores how several Python libraries can be used in different scenarios and applications to solve a diverse set of problems.

COP 4531. Complexity and Analysis of Data Structures and Algorithms (3). Prerequisites: COP 4530 and MAD 3105. Corequisite: STA 3032 or STA 4442. This course is an analysis of the complexity of algorithms, including sorting, searching, and graph algorithms; use and implementation of graphs.

COP 4610. Introduction to Operating Systems (3). Prerequisite: COP 4530. Corequisite: CDA 3101. This course explores design principles of batch, multiprogramming, and time-sharing operating systems; linking, loading, input-output systems, interacting processes, storage management, process and resource control, and file systems.

COP 4656r. Mobile Programming (3). Prerequisite: COP 4530. This course teaches students how to program mobile devices. Students use event-based models to write and deploy a content based application using a mobile computing software framework. May be repeated to a maximum of nine semester hours.

COP 4710. Theory and Structure of Databases (3). Prerequisites: COP 3330 and MAD 2104. This course examines the theory of relational and object-oriented databases; relational database management systems and SQL; design, development, and implementation issues in database systems.

COP 4813. Web Applications Programming (3). Prerequisite: COP 3252. This course teaches programming of distributed Web applications using Java Database Connectivity, Servlets, Java Server Pages, Remote Method Invocation, and Enterprise Java Beans (both session and entity beans). Use of the Sun Microsystems Java 2 Enterprise Edition development platform either directly or through an Integrated Development Environment such as IBM's Websphere is also covered.

COT 4401. Top 10 Algorithms (3). Prerequisite: COP 4530. This course focuses on a wide-ranging selection of ten of the most influential algorithms in use today: what they are, how they work, and their impact on modern life.

COT 4420. Theory of Computation (3). Prerequisite: MAD 3105. This course is an introduction to the theory of computation, including models of computation such as Turing machines; theory of programming languages, including grammars, parsing, syntax, and semantics.

Graduate Courses

CAP 5137. Software Reverse Engineering and Malware Analysis (3).
CAP 5415. Principles and Algorithms of Computer Vision (3).
CAP 5605. Artificial Intelligence (3).
CAP 5619. Deep and Reinforcement Learning Fundamentals (3).
CAP 5638. Pattern Recognition (3).
CAP 5726. Introduction to Computer Graphics (3).
CDA 5125. Parallel and Distributed Systems (3).
CDA 5155. Computer Architecture (3).
CEN 5035. Software Engineering (3).
CEN 5526. Wireless and Mobile Computing (3).
CGS 5267. Principles of Computer Organization (3). (S/U grade only.)
CGS 5268. Principles of Computer Organization II (3). (S/U grade only.)
CGS 5409. Object-Oriented Programming in C++ for Non-majors (2).
CGS 5425. Object-Oriented Programming with Data Structures (3). (S/U grade only.)
CGS 5426. Programming Language Concepts (3). (S/U grade only.)
CGS 5427. Algorithm Design and Analysis (3). (S/U grade only.)
CGS 5428. Relational Database Theory (3). (S/U grade only.)
CGS 5429. Introduction to Computer Theory (3). (S/U grade only.)
CGS 5466. Programming for Non-Majors (3). (S/U grade only.)
CGS 5765. Principles of Operating Systems (3). (S/U grade only.)
CGS 5935r. Special Topics in Computer Science for Non-Majors (1–3). (S/U grade only.)
CIS 5105. Computer Systems for Performance Analysis (3).
CIS 5370. Computer Security (3).

CIS 5371. Cryptography (3).
CIS 5627. Offensive Computer Security (3).
CIS 5900r. Directed Individual Study (1–9). (S/U grade only.)
CIS 5910r. Supervised Research (1–5). (S/U grade only.)
CIS 5915r. Graduate Software Project (1–12). (S/U grade only.)
CIS 5920r. Colloquium (0–1). (S/U grade only.)
CIS 5930r. Selected Topics in Computer Science (1–3).
CIS 5935. Introductory Seminar on Research (2). (S/U grade only.)
CIS 5940r. Supervised Teaching (1–5). (S/U grade only.)
CIS 5949r. Internship in Computer Science (0–9). (S/U grade only.)
CIS 6628. Offensive Network Security (3).
CIS 6900r. Directed Individual Study (1–12). (S/U grade only.)
CIS 6930r. Advanced Topics in Computer Science (1–3).
CIS 6935r. Advanced Seminar in Computer Science (1).
CNT 5412. Network Security, Active and Passive Defenses (3).
CNT 5415. Applied Computer and Network Security (3).
CNT 5505. Data and Computer Communications (3).
CNT 5529. Wireless Networking (3).
CNT 5605. Computer and Network Administration (3).
COP 5570. Concurrent, Parallel, and Distributed Programming (3).
COP 5611. Advanced Operating Systems (3).
COP 5621. Compiler Construction (3).
COP 5641. Kernel and Device Driver Programming (3).
COP 5659r. Mobile Programming (3).
COP 5725. Database Systems (3).
COP 6622. Advanced Topics in Compilation (3).
COT 5310. Theory of Automata and Formal Languages (3).
COT 5405. Advanced Algorithms (3).
COT 5507. Analytic Methods in Computer Science (3).
COT 5715. Random Number Generation (3).
ISC 5228. Monte Carlo Methods (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

CONSUMER AFFAIRS:
see Retail Merchandising and Product Development

COUNSELING PSYCHOLOGY AND HUMAN SYSTEMS:
see Educational Psychology and Learning Systems

CRIMINOLOGY AND CRIMINAL JUSTICE
Undergraduate Programs

College of Criminology and Criminal Justice

Website: *http://criminology.fsu.edu/*
Professors: Bales, Beaver, Blomberg, Chiricos, Gertz, Hay, Maier-Katkin, Mears, Stewart; **Associate Professors:** Coonan, Siennick, Stults, Warren; **Assistant Professors:** Chouhy, Close, Copp, Kim, Lantz, McLean, Turanovic, Wegner, Zane; **Professors Emeriti:** Kirkham, Kleck, Waldo

The College of Criminology and Criminal Justice offers undergraduate and graduate programs leading to the Bachelor of Science (BS), Bachelor of Arts (BA), Master of Science (MS), Master of Arts (MA), and Doctor of Philosophy (PhD) degrees. Undergraduate degree programs include criminology and cyber criminology, a joint program with the Department of Computer Science. A combined bachelor's/master's pathway is offered in criminology and criminal justice for eligible students. A distance learning certificate is available in criminology. A distance-learning Master of Science (MS) degree program in criminal justice studies is available. Also available are joint graduate pathways with the School of Public Administration and the College of Social Work. Some evening courses are offered for undergraduate and graduate students. A distance-learning Bachelor of Science degree program in criminology is also available.

Refer to the "College of Criminology and Criminal Justice" chapter in this *General Bulletin* for additional details on degree requirements, the college, student opportunities, and financial aid.

Academic Performance and Retention

The College of Criminology and Criminal Justice reserves the right to discontinue enrollment of any student in the College at any time if satisfactory academic progress is not being made. Specifically, students majoring in criminology must earn a "C" or better in the three core courses and maintain a major GPA of 2.0. A student who has accumulated three unsatisfactory grades, (D+, D, D–, F, U, IE) in criminology and criminal justice courses taken for college credit at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue, be readmitted, or be allowed to graduate with a degree in Criminology and Criminal Justice.

Students majoring in cyber criminology must earn a "C" or better in core courses CCJ 2020, CCJ 3011, and CCJ 4700, and a "C–" or better in all other courses for the major and maintain an overall GPA of 2.0. Students with more than four grades below "C–" (D+, D, D–, F, U, IE) in criminology, criminal justice, computer science, or prerequisite coursework, whether taken at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue in the major.

A student who applies for readmission to the College must meet the major and degree requirements of the *General Bulletin* in force on the date of readmission.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer competency skills prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in criminology satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100. Undergraduate majors in cyber criminology satisfy this requirement by earning a grade of "C–" or higher in COP 3014.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Cyber Criminology

1. COP XXXX: one course for three credit hours in computer programming
2. MAC X105

3. MAC X140

Major Requirements for Criminology and Criminal Justice

To major in criminology, a student must complete thirty-six semester hours in criminology and criminal justice coursework, including three core courses. The three core courses are Introduction to Criminal Justice (CCJ 2020), Criminology (CCJ 3011), and Introduction to Research Methods in Criminology (CCJ 4700). Two core courses (CCJ 3011 and CCJ 4700) are expected to be taken at Florida State University; CCJ 2020 may be taken at a community college. A minimum grade of "C" must be obtained in each core course. For acceptable core course substitutions, see the department for an approved list. An optional one-semester, full-time (fifteen semester hour) internship is available. If a student chooses to take the internship, only three of the fifteen semester hours will count toward the required thirty-six hours in the major. Students in the major are required to complete either a full-time internship, a minor, or second major in another department or program outside the College of Criminology and Criminal Justice, and they must meet all requirements stipulated by that department or program.

For students transferring from another four-year university, at least twenty-seven semester hours must be earned at Florida State University in the College of Criminology and Criminal Justice; the University requires the last thirty semester hours prior to graduation be taken at Florida State University. In addition, all University requirements must be met for either the Bachelor of Arts (BA) or the Bachelor of Science (BS) degrees.

Major Requirements for Cyber Criminology

To major in cyber criminology, a student must complete fifty-two semester hours in criminology and criminal justice, computer science, and mathematics courses. Students will complete twenty-four hours in criminology and criminal justice and twenty-five hours in computer science coursework that includes eight core courses. The required core courses from criminology and criminal justice are: CCJ 2020, CCJ 3011, CCJ 4700, and CJE 3110. The required core courses from computer science are: CIS 4360, COP 3014, COP 3330, and COP 3353. A total of six hours of capstone coursework representing criminology and criminal justice and computer science is required. The capstone course for criminology is CCJ 4938 and the capstone course for computer science is CIS 4385. Students must also complete three hours of Discrete Math, MAD 2104. From an approved list, students will choose nine additional hours in criminology and criminal justice as well as twelve additional hours in computer science coursework. Computer science electives may be chosen from: CDA 3100, CDA 3101, CIS 4361, CNT 4406, CNT 4504, CNT 4603, COP 4342, COP 4530, COP 4610, CDA 3101, and COP 4710, CEN 4020, CIS 3250, COP 3252, COP 4020. Students must earn a "C" or better in CCJ 2020, CCJ 3011, and CCJ 4700 and a "C–" or better in all other courses for the major, and maintain an overall GPA of 2.0. Students with more than four grades below "C–" in criminology, criminal justice, computer science, or prerequisite coursework, whether taken at Florida State University or elsewhere, whether repeated or not, will not be permitted to continue in the major. A minor is not required.

For students transferring from another four-year university, transfer courses within the major are evaluated on an individual basis. The University requires that the last thirty semester hours prior to graduation be taken at Florida State University. In addition, all University requirements must be met for either the Bachelor of Arts (BA) or the Bachelor of Science (BS) degrees.

Approved criminology and criminal justice elective courses include: CCJ 3644, CCJ 3666, CCJ 4497, CCJ 4614, CJC 3010, CJJ 4010, CJL 3510, and CJL 4064.

Minor Requirements

A minor in criminology may be obtained upon completion of four classes. Introduction to Criminal Justice (CCJ 2020) and nine additional semester hours in criminology and criminal justice are required for a total of twelve hours. CCJ 2020 may be taken at the community college level prior to admission to Florida State University. Students cannot take CCJ 4905r (Directed Individual Study), CCJ 4933r (Seminar in Criminology), or CCJ 4938r (Special Topics in Criminology) to fulfill the minor. Grades of "C–" or better are required for all coursework in the minor.

Internships

A variety of internships are available at the local, state, and federal levels. Students can choose from the fields of law enforcement, courts, corrections, criminal justice planning, criminological research, and private sector opportunities. The internship is available for juniors and seniors who have completed the core courses (CCJ 2020, 3011, and 4700). The intern receives a satisfactory/unsatisfactory (S/U) grade, and full credit is given upon successful completion of both the academic component and work hours.

Students are advised that information pertaining to all matters of public record, such as arrests and convictions, may be required by the agencies accepting interns. Although a reasonable effort is made to place a student in an internship, Florida State University will not be liable if a student cannot be placed. Students are responsible for all living and transportation expenses during field experiences.

Certificates

The College of Criminology and Criminal Justice offers a distance learning certificate program in criminology.

Honors in the Major

The College of Criminology and Criminal Justice encourages eligible students to participate in the honors in the major program. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

Criminology and Criminal Justice

CCJ—Criminology and Criminal Justice
CJC—Corrections
CJE—Law Enforcement
CJJ—Juvenile Justice
CJL—Law and Process
IDS—Interdisciplinary Studies
SCC—Security

Computer Science

CDA—Computer Design/Architecture
CIS—Computer Science and Information Systems
CNT—Computer Networks
COP—Computer Programming

Undergraduate Criminology and Criminal Justice Courses

CCJ 2020. Introduction to Criminal Justice (3). This course is designed to provide freshmen and sophomore students with knowledge of terminology, classification systems, trends, and theories of criminal justice.

CCJ 3011. Criminology (3). This course offers an examination of the field of criminology, including its theories, basic assumptions, and definitions.

CCJ 3644. White Collar Crime (3). This course provides an overview of major issues in the study of white-collar crime. Topics covered include conceptual and definitional debates; forms of white-collar crime; theories and causes; offenders, victims, and costs; and investigation, prosecution, and sentencing.

CCJ 3666. Victimology (3). This course examines the role of victims in crimes, their treatment by the criminal justice system, their decisions to report crimes and help prosecute offenders, victim assistance, and victim compensation. Special focus on sexual battery and domestic violence.

CCJ 3673. The Social Reality of Black Males (3). This course critically examines different viewpoints and non-reconciled positions about the current economic, social, and political status of Black males in America. The relationship between stereotypical images and the complicated search among Black males for identity and manhood will also be explored.

CCJ 3677. Crimes against Humanity (3). This course is a multi-disciplinary examination of the emergence and impact of modern conceptions of human rights, including inquiry into the nature and sources of rights and of institutions for their enforcement, such as international war tribunals and peace and reconciliation commissions. Particular attention focuses on case studies of the violation or abrogation of human rights doctrines, drawing on literature, law, philosophy, history, religion, and the social sciences to explain and respond to the phenomena of crimes against humanity.

CCJ 3688. Religion and Crime (3). This course examines the influence of religion on crime from historical, sociological, and criminological perspectives. Students learn how religion operates both as a protection against crime and as a motivation for crime.

CCJ 3949r. Experiential Learning (0). (S/U grade only.) This non-credit, experiential learning course offers students an opportunity to gain "real world" on-the-job work experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

CCJ 4004. Comparative Criminology and Criminal Justice (3). This course introduces students to a global, comparative approach to the study of crime and criminal justice systems, beginning with the discussion of transnational crime and issues related to its measurement and continuing with the study of the four major legal traditions (common law, civil law, socialist law, and Islamic law) and the analysis of specific components of the criminal justice system across the world, including the police, courts, and corrections.

CCJ 4031. The Individual and Society (3). This course introduces an understanding of normal human behavior and development in social context.

CCJ 4037. Crime Victimization and the Media (3). This course examines the role new media often plays in advancing public safety and crime control. In this course students analyze how the news media covers crime and victimization and how this impacts the criminal justice system and crime victims.

CCJ 4062. Hate and Bias Crime (3). This course examines the causes and consequences of prejudice, hate groups, and hate crimes, as well as the social contexts in which they occur.

CCJ 4344. Punishment and Punitiveness (3). This course addresses different perspectives regarding punishment in contemporary societies. Particular attention will be given to contemporary discussions about punitiveness, its causes, consequences, and alternatives.

CCJ 4450. Criminal Justice Administration (3). This course is an application of organization and administration theories to the criminal justice system.

CCJ 4497. Criminal Justice and Public Policy (3). This course examines historically significant and recent crime and criminal justice policies in terms of their antecedent factors, their impact on measurable outcomes, and their unintended consequences.

CCJ 4601. Human Behavior (3). This course studies the origins of human and deviant behavior from a multidisciplinary approach (biological, psychological, sociological, criminological); addresses major theories and research, including case studies illustrative of deviant behavior such as drug abuse, suicide, mental illness, and sexual deviance.

CCJ 4614. Criminal and Delinquent Behavior (3). This course is an examination of patterns of criminal and delinquent behaviors in light of theories and classification concepts.

CCJ 4623. Violence in America (3). This course explores definitions, patterns, and theoretical explanations of aggression and violence in the United States. Issues related to violent offending are discussed as well as the main issues associated with violence in America.

CCJ 4662. Minorities, Crime, and Social Policy (3). This course examines the involvement of minorities, especially African-Americans, in crime and in the criminal justice system. Special attention is paid to the role of racism in theories of crime and in American law and to the treatment of minorities by the various components of the criminal justice system. May require community service hours.

CCJ 4663. Women, Crime and Justice (3). This course provides a flexible forum for the study and discussion of female crime and delinquency and gender issues in the criminal justice system.

CCJ 4667. Crime Victimization and Victim Services (3). This course will introduce students to the various entities that provide assistance to victims of crime and examine the critical role of victim service providers in advocating for crime victims. In addition, students consider the responsibilities of the criminal justice system to crime victims and the impact of the justice system's involvement.

CCJ 4687. Evaluation and Assessment of Victim Services (3). This course offers a comprehensive overview of current research in the field and evidence based practices as well as explores the gaps and areas of needed research in victim service program evaluation and assessment.

CCJ 4700. Introduction to Research Methods in Criminology (3). This course covers basic methodological and statistical issues in criminology.

CCJ 4905r. Directed Individual Study (1–4). Prerequisites: Instructor and dean permission. In this course, a student registered for an individual-study course must submit a prospectus, outline, and bibliography and schedule at least one conference a week on campus. May be repeated to a maximum of twelve semester hours.

CCJ 4909r. Honors in Criminology (3). This course is designed for upper-division students with a grade point average of 3.2 in all courses. May be repeated to a maximum of twelve semester hours.

CCJ 4933r. Seminar in Criminology (3). This course introduces varying topics of selected interest and contemporary significance, discussed in a seminar format. May be repeated to a maximum of six semester hours.

CCJ 4938r. Special Topics in Criminology (3). This course content varies as instructors present different developments, problems, and controversies. May be repeated to a maximum of twelve (12) credit hours; repeatable within the same term.

CCJ 4940. Internship in Criminology (15). (S/U grade only.) This internship facilitates field placement in an approved criminal justice agency for integration of theory and practice through participant observation study.

CCJ 4942. Part Time Internship in Criminology (8). (S/U grade only.) Prerequisites: CCJ 2020, CCJ 3011, and CCJ 4700.This course facilitates part time field placement in an approved criminal justice agency for integration of theory and practice through participant observation study.

CJC 3010. Corrections (3). This course provides an overview of correctional philosophies, practices, and procedures.

CJC 4410. Theories and Methods of Offender Treatment (3). This course introduces theories and techniques that may be employed within the boundaries of probation, parole, or prison to influence and alter the attitudes, values, and behaviors of persons adjudicated guilty by the criminal justice system.

CJE 3110. Law Enforcement (3). This course provides an advanced survey of law enforcement concentrating on the police, and places emphasis on functions (law enforcement, order maintenance, public service) and responsibilities (e.g., preservation of constitutional rights, community relations), including organizational and management aspects.

CJE 4114. Police Problems and Practices (3). This course provides an analysis of both the traditional and contemporary issues and problems existing in the law enforcement community. Topics represent a wide variety of concerns, including such areas as corruption, police use of deadly force, and the utilization of law enforcement to combat corporate crime, computer crime, and terrorism.

CJE 4339. Law and Ethics in Victim Services (3). This course provides an overview of ethical standards within the criminal justice profession in general and specifically analyzes ethical issues as they relate to crime victim advocacy. The course also explores common ethical conflicts and how to apply ethical and legal standards and decision making to resolve them as well as multi-cultural competency and ethical responsibilities.

CJJ 4010. Juvenile Justice (3). This course provides an examination of juvenile delinquency and juvenile justice, including legal and social history, definition and explanation of delinquency, and assessment of delinquency prevention and correctional programs, with emphasis on application of philosophical, legal, and procedural principles to problems and cases of juvenile justice. May require community service hours.

CJL 3510. The Courts (3). This course examines the jurisdiction, policies, and procedures of courts in the administration of criminal justice.

CJL 4038. Law, Society and the Administration of Justice (3). This course examines how law shapes and is shaped by economic relations, morality, social solidarity, state institutions, political domination, democratic governance, and legal consciousness, and how law impacts and is influenced by race, gender, and class relations. The course explores how social groups use law and legal ideology to press their rights to remedy social inequalities and to what extent these groups are successful. Students become familiar with major theoretical traditions in law and society as well as sociological issues such as civil rights, the legislation of morality, and the administration of justice.

CJL 4064. Individual Rights and the Criminal Justice System (3). This course offers an examination of the full range of rights in criminal justice, dealing with them not only in broad philosophical and social terms but also in terms of specific instances, including the rights of the accused and extending to the rights of convicts, witnesses, victims, probationers, ex-convicts, officials, journalists, and the more generalized rights of participation by interest group advocates, taxpayers, and citizens in criminal justice policy and administration.

CJL 4110. Substantive Criminal Law (3). This course offers an examination of the central principles of criminal law, which includes the substantive elements defining criminal conduct for specific crimes and the various exculpatory conditions for criminal liability.

CJL 4565. Courts and Social Policy (3). This course examines the role of courts in determining social policy as it relates to criminology. Emphasis is directed toward the political and social inputs that influence judicial decision making and the role of democracy and punishment in the courts. These topics are examined using current social policy. The course satisfies oral competency requirements.

IDS 2104. Foundations of Research and Inquiry (3). The purpose of this seminar is to advance library research, writing skills, and critical thinking skills among lower division students. Through participation in the seminar and research activities, students learn to develop and improve their capacity to communicate complex ideas about a topic of their choosing in speech and in writing.

SCC 4004. Public and Private Security (3). This course offers an overview of the major topics of public and private security. The topics represent a wide variety of concerns, including such areas as historical development, the role of security in society, and current practices and standards.

Undergraduate Computer Science Courses

CDA 3100. Computer Organization I (3). Corequisites: COP 3330 and MAD 2104. This core course is intended for computer science majors with previous C/C++ background. The course introduces fundamental concepts in computer organization and digital logic design, including numbering systems and number representation, logic gates and design, the Von-Neumann architecture principle, and the machine instruction cycle. Assembly language programming with C language interfacing is also presented, reinforcing basic computer structure and machine cycle operation principles.

CIS 4361. Applied Computer Security (3). Prerequisite: CDA 3100. This course addresses threats to and vulnerabilities of information systems and provides hands-on opportunities for students to work with current counter-threat technology. This course also covers analytic principles to support vulnerability assessment and countermeasure design.

CIS 4930r. Special Topics in Computer Science (3). Prerequisite: COP 4530. May be repeated to a maximum of six semester hours. May be repeated within the same semester.

CNT 4406. Network Security and Cryptography (3). Corequisite: COP 4530. This course examines threats to computer networks, network vulnerabilities, techniques for strengthening passive defenses, tools for establishing an active network defense, and policies for enhancing forensic analysis of crimes and attacks on computer networks. Topics include private and public key cryptography, digital signatures, secret sharing, security protocols formal methods of analyzing network security, electronic mail security, firewalls, intrusion detection, Internet privacy, and public key infrastructures.

CNT 4504. Introduction to Computer Networks (3). Corequisite: COP 4530. This course covers circuit-switched and packet-switched networks; protocols; protocol layering; application layer and socket programming; transport layer, multiplexing and demultiplexing, UDP, TCP, reliability, flow control, and congestion control; network layer, routing protocols, switching technologies, multicast, and mobility; link layer, local area networks, error detection and correction; wireless networks; multimedia networking; network security; and network management.

CNT 4603. Computer and Network System Administration (3). Prerequisite: CGS 3406 or COP 3014. This course offers a hands-on introduction to Unix and Microsoft Windows systems and network administration. Topics include installation, maintenance, and extension of a multi-user computer system; development of administrative policies and procedures; user assistance and education; specifics of the Unix and Windows operating systems; and practical troubleshooting and problem solving.

COP 3014. Programming I (3). Prerequisite: MAC 1140. This course covers fundamental concepts and skills of programming in a high-level language. Flow of control: sequence, selection, iteration, subprograms. Data structures: arrays, strings, structs, ADT lists and tables. Algorithms using selection and iteration (decision making, finding maxima and minima, basic searching and sorting, simulation, etc.). Good program design using a procedural paradigm, structure, and style are emphasized. Interactive and file IO. Testing and debugging techniques. Intended primarily for computer science or computer engineering majors, or anyone who is required to take COP 3330.

COP 3330. Object Oriented Programming (3). Prerequisite: COP 3014 or a comparable course in C or C++ Programming. Corequisite: COP 3353. This course focuses on object-oriented programming in a modern programming language; classes, objects, inheritance, and polymorphism; introduction to data structures and container classes.

COP 3353. Introduction to UNIX (1). This course for majors and non-majors offers an introduction to the UNIX operating system. Topics include: UNIX history, requesting UNIX accounts, logging into a UNIX system, basic operating system concepts and file structure, basic commands, text editor(s) (to include emacs, vi, and pico), printing, mail, and online help. The goals of this course are to enable students to log in to their UNIX accounts from any type of computer and have a basic understanding of the commands and utilities.

COP 4342. Unix Tools (3). Prerequisite: COP 3330. This course is an introduction to selected Unix tools and utilities that are useful for advanced users, programmers, and system administrators, such as shell scripts, the perl language, revision control systems, debuggers, editors, and the make, awk, sed, and expect utilities.

COP 4530. Data Structures, Algorithms and Generic Programming (3). Prerequisites: COP 3330 and MAD 2104. Pre- or corequisite: CDA 3100. This course focuses on definition, use, and implementation of generic data structures using a modern programming language; reusable program components.

COP 4610. Operating Systems and Concurrent Programming (3). Prerequisite: COP 4530, CDA 3100, or instructor permission. This course explores design principles of batch, multiprogramming, and time-sharing operating systems; linking, loading, input-output systems, interacting processes, storage management, process and resource control, file systems.

COP 4710. Theory and Structure of Databases (3). Prerequisites: COP 3330 and MAD 2104. This course examines the theory of relational and object-oriented databases; relational database management systems and SQL; design, development, and implementation issues in database systems.

Graduate Courses

CCJ 5016. Crimes of the Powerful (3).
CCJ 5028r. Seminar in Criminal Justice (3).
CCJ 5050. Proseminar in Criminology (3).
CCJ 5078. Computer Applications in Criminal Justice (3).
CCJ 5109. Theory in Criminology and Criminal Justice (3).
CCJ 5285. Survey of Criminal Justice Theory and Research (3).
CCJ 5320. Penology (3).
CCJ 5546. Prevention and Treatment of Crime and Delinquency (3).
CCJ 5606. Survey of Criminological Theories (3).
CCJ 5607. History of Criminological Thought (3).
CCJ 5625. Ecology of Crime (3).
CCJ 5635. Biosocial Criminology (3).
CCJ 5636. Comparative Criminology and Criminal Justice (3).
CCJ 5669. Race, Ethnicity, Crime and Social Justice (3).
CCJ 5672. Gender, Crime and Justice (3).
CCJ 5705. Research Methods in Criminology I (3).
CCJ 5706. Applied Statistics in Criminology I (3).
CCJ 5707. Qualitative Methods in Criminology (3).
CCJ 5709. Survey Research Methods in Criminology and Criminal Justice (3).
CCJ 5740. Data Analysis in Criminology and Criminal Justice (3).
CCJ 5944. Supervised Teaching (3). (S/U grade only.)
CCJ 5945. Field Practice in Criminology (9). (S/U grade only.)
CCJ 5946r. Criminal Justice Practicum (3–6). (S/U grade only.)
CCJ 5974r. Area Paper in Criminology (1–6). (S/U grade only.)
CCJ 5981r. Directed Individual Study (3). (S/U grade only.)
CCJ 6065. Professional Development in Criminology (3).
CCJ 6665. Victimology (3).
CCJ 6708. Seminar in Crime Research (3).
CCJ 6741r. Advanced Data Analysis in Criminology and Criminal Justice (3).
CCJ 6920r. Seminar in Theoretical Criminology (3).
CJE 5024. Police and Society (3).
CJJ 5020. Juvenile Justice (3).
CJL 5520. Structure and Process of the American Court System (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

School of DANCE

Undergraduate Programs

College of Fine Arts

Website: *http://dance.fsu.edu/*

Chair: Anjali Austin; **Associate Chair:** Russell Sandifer; **Professors:** Austin, Farrell, Glenn, Sandifer, Welsh, Zollar; **Associate Professors:** Atkins, Corbin, Garibaldi, Goldman, Schwadron, Uchizono, Welliver; **Assistant Professors:** Ishangi, Mitchell, Rhynard; **Assistant in Research:** Burdick; **Research Faculty I:** Peterson; **Instructional Specialist I:** Davis-Craig; **Instructional Specialist II:** Smith; **Emeriti:** Davis, Fichter, Houlihan, McCullough, Morgan, Phillips, Wagoner, Young

The School of Dance offers work leading to the Bachelor of Fine Arts (BFA) degree in dance. The mission of the Florida State University School of Dance is to provide an environment conducive to the highest caliber of dance training, art making, and scholarship. Our approach encourages fluidity between the processes of making art, honing craft, and deepening intellectual explorations. We cultivate the individual creative voice with exposure to diverse technical and philosophical approaches. Such an environment nurtures exceptional dance practitioners, allows us to make creative and intellectual contributions to the larger dance community, and fosters collaborative endeavors within and beyond our field.

The curriculum is designed to prepare the student who wishes to enter dance as a profession. Of the many professional avenues in which dance can be pursued and practiced, performance and choreography constitute the emphasis of the undergraduate major curriculum at this University. The theoretical aspects of dance (pedagogical, historic, and aesthetic) are also stressed.

To fulfill the purpose of the program, the faculty consists of outstanding artist-teachers and scholars who are committed to the model of intensive professional training within the context of a broad University education. A full production schedule offers extensive opportunities for repertory study, performance, and choreography, complemented by work with guest choreographers and visiting lecturers. Part of the school's mission is to serve as a regional repertory center for the reconstruction and production of dance masterworks and the creation of original repertory. The Maggie Allesee National Center for Choreography (MANCC), a dance and choreographic research center affiliated with the School of Dance, also hosts numerous internationally recognized dance artists. The program's facilities include spacious studios and the Nancy Smith Fichter Dance Theatre.

In addition to the dance major degree program, the school offers some liberal studies coursework and elective coursework for the general University student. The school also offers work leading to the Master of Fine Arts (MFA) degree in dance and a Master of Arts (MA) degree in dance with a major in American dance studies or studio and related studies. Qualified undergraduate dance majors may apply for the Combined Pathway in dance, which offers the opportunity to earn both a BFA degree and an MA degree in dance within a targeted tenure of five years.

Florida State University is an accredited institutional member of the National Association of Schools of Dance.

Audition and Screening

All undergraduate students who wish to major in dance must audition for admission into the dance major program. Auditions are held at designated periods throughout the year.

Assessment of every dance major occurs at various times throughout each year to evaluate the student's progress in the major program. Such assessment is part of a continuous advisement and monitoring procedure. A probationary period may be established if a student is having difficulty and needs special attention. A student who cannot meet the school's proficiency standards will be discontinued from the dance major program.

Placement and Proficiency

Intrinsic to the development of a dancer is the technical command of the instrument and the expansion of the vocabulary of movement; therefore, dance majors are continually assessed during their curricular experiences in order to be placed at the correct level of studio work in dance technique. All students are assigned an appropriate placement level in ballet and contemporary dance upon entrance into the program and must maintain continuous participation in ballet and contemporary dance technique classes throughout enrollment in the curriculum. Students who demonstrate the skill necessary for the next level of work upon completion of a studio technique course will be permitted to enroll at the next level. If not, they will be expected to continue in designated courses at their level of technique until they are ready to advance. To meet graduation requirements, the student must achieve and maintain the ballet III level and the contemporary dance II level or the contemporary dance III level and the ballet II level; the advanced proficiency level (III) must be achieved by one semester prior to graduation.

Performance

The dance major is required to participate in a minimum of four performing experiences sponsored by the school.

Liberal Studies for the 21st Century

All students working toward a degree in dance are required to meet the liberal studies requirements.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in dance satisfy this requirement by earning a grade of "C–" or higher in DAN 4418.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Dance – BFA Track

Any twenty-four credit hours from the following thirty credit hours will be accepted toward the major:

1. DAN X610 or DAN X600 (three credit hours)
2. DAN X611 or DAN X601 (three credit hours)
3. DAA X610 (two credit hours)
4. DAA X611 (two credit hours)
5. DAA X680 (two credit hours) or any lower level repertory courses in the 400–499 series for up to four credit hours
6. DAA X681 (two credit hours) or any lower level repertory courses in the 400–499 series for up to four credit hours
7. DAA X200–X209: any lower level ballet technique courses for up to eight credit hours
8. DAA X100–X109: any lower level modern technique courses for up to eight credit hours

Note: Although credit toward the major will be given for these, placement in upper level technique courses will continue to be based on individual student proficiency.

Minimum Requirements for the BFA in Dance

1. **Dance Technique.** Thirty semester hours and fulfillment of proficiency requirement. Dance technique courses include DAA 3108r, 3109r, 3208r, 3209r, 4110r, 4210r. The student enrolls in both ballet and contemporary dance throughout enrollment as a dance major except in the following two instances: (a) during Summer session, students may elect to take only one of the technique courses (either ballet or contemporary dance); (b) if students have achieved and maintained the required proficiency levels in technique for at least one semester they may elect to take only one of the technique courses (either ballet or contemporary dance) during one of the last two semesters before graduation (unless they attend the Arts in NYC program).
2. **Dance Composition and Repertory.** Ten semester hours including DAA 2610, 3614, 3654r, DAN 2611.
3. **Other Dance Courses.** Forty semester hours, including Dance Ensemble (four semester hours of DAA 1680r, 2681r, 3684r, or 4685r); DAN 2101; DAE 3384; DAN 2500, 2610, 3144, 3145, 3146, 3400, 3504, 3584r, 3714, 3744, 4418 and DAN 4971.

4. **Liberal Studies.** Thirty-six semester hours. Three hours of the dance history/critical theory courses—DAN 3144, 3145, or 3146—may be applied to the Humanities/Cultural Practice area of liberal studies requirements.
5. **Electives.** Eleven semester hours.

Total: One hundred twenty-eight semester hours.

The applicability of previous coursework to dance curricular requirements is assessed and determined by the School of Dance. A transfer student need not earn the maximum semester hours in dance technique but must fulfill the curricular requirement of maintaining continuous participation in ballet and contemporary dance throughout enrollment in the curriculum and must achieve and maintain the required technical proficiency levels.

Undergraduate dance majors need not earn the maximum semester hours in dance technique if they are able to complete successfully all other University and school course requirements for graduation and if they have achieved the required technical proficiency levels prior to accumulation of the maximum hours in technique.

Students must earn a "C-" or higher in all dance major required courses to graduate. Failure to achieve this milestone with result in repeating coursework.

Honors in the Major

The School of Dance offers a program in honors in the major to encourage talented juniors and seniors to undertake independent and original research or creative work. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

DAA—Dance, Emphasis on Activity
DAE—Dance Education
DAN—Dance
IDS—Interdisciplinary Studies

Undergraduate Courses

Dance Technique

The following courses offer a progression of study to develop technical and performance skills, as well as concepts in dance.

Ballet

DAA 1200r. Beginning Ballet I–Nonmajors (3). This course is suitable for students with little or no previous ballet training. Includes some theoretical study of the history of the art form and comprehension of the vocabulary of ballet technical terms. May be repeated to a maximum of nine semester hours.

DAA 1201r. Beginning Ballet II–Nonmajors (3). Prerequisite: Faculty placement or instructor permission. This course is suitable for students who are familiar with basic ballet movement. Includes some theoretical study of the history of the art form and comprehension of the vocabulary of ballet technical terms. May be repeated to a maximum of nine semester hours.

DAA 1202r. Beginning Ballet III–Nonmajors (3). Prerequisite: Faculty placement or instructor permission. This course is suitable for students who are ready to learn more complex phrasing and transitioning of basic ballet movement. Includes some theoretical study of the history of the art form and comprehension of the vocabulary of ballet technical terms. May be repeated to a maximum of nine semester hours.

DAA 2203r. Intermediate Ballet–Nonmajors (3). Prerequisite: Faculty placement or instructor permission. This course is designed for ballet students who are ready to develop proficiency at the intermediate level, and includes some theoretical study of the history of the art form as well as comprehension of the vocabulary of ballet technical terms. May be repeated to a maximum of eighteen semester hours.

DAA 3208r. Ballet I (1–3). Prerequisites: Major status and faculty placement or instructor permission. May be repeated to a maximum of twelve semester hours.

DAA 3209r. Ballet II (1–3). Prerequisites: Major status and faculty placement or instructor permission. May be repeated to a maximum of twenty-four semester hours.

DAA 3224Cr. Pointe Technique and Repertory (1). Prerequisite: Instructor permission. This course offers instruction in the theory and practice of ballet and pointe technique. Students build the strength and technique necessary to execute classical and contemporary pointe variations, with a focus on artistry, individual interpretation, style, and musicality. Finally, the course investigates the historical context of the variations through mini-lectures, discussions, and video viewings. May be repeated to a maximum of eight semester hours.

DAA 4210r. Ballet III (1–3). Prerequisites: Major status and faculty placement or instructor permission. May be repeated to a maximum of twenty-four semester hours.

Contemporary Dance

DAA 1100r. Beginning Contemporary Dance I–Nonmajors (3). This course develops basic techniques and understanding of the art of contemporary dance. Includes some theoretical study of the history of the art form. May be repeated to a maximum of nine semester hours.

DAA 1102r. Beginning Contemporary Dance III–Nonmajors (2). Prerequisite: Faculty placement or instructor permission. The course may be repeated to a maximum of six semester hours.

DAA 2103r. Intermediate Contemporary Dance–Nonmajors (3). Prerequisite: Faculty placement or instructor permission. This course is designed for the intermediate contemporary dancer that has had previous movement experience in contemporary dance technique, and includes some theoretical study of contemporary dance history. May be repeated to a maximum of eighteen semester hours.

DAA 3108r. Contemporary Dance I (1–3). Prerequisites: Major status and faculty placement or instructor permission. May be repeated to a maximum of twelve semester hours.

DAA 3109r. Contemporary Dance II (1–3). Prerequisites: Major status and faculty placement or instructor permission. May be repeated to a maximum of twenty-four semester hours.

DAA 4110r. Contemporary Dance III (1–3). Prerequisites: Major status and faculty placement or instructor permission. May be repeated to a maximum of twenty-four semester hours.

Jazz

DAA 1500r. Jazz Dance I—Nonmajors (3). This studio course introduces jazz dance as an art form while developing the basic skills and vocabulary of jazz dance. Includes some theoretical study of the history of jazz dance and development of critical-response skills to dance performance. May be repeated to a maximum of eighteen semester hours.

DAA 1501r. Jazz Dance II—Nonmajors (3). Prerequisite: Faculty placement or instructor permission. This studio course explores jazz dance as an art form while developing more advanced skills and vocabulary of jazz dance. Includes some theoretical study of the history of jazz dance and the experience of responding critically to dance as an audience member. May be repeated to a maximum of eighteen semester hours.

Aspects of Dance Performance

DAA 1680r. Dance Ensemble (0–1). (S/U grade only.) This course provides experience in dance ensemble and performance work. This course also includes weekly attendance at the School of Dance Forum for both Fall and Spring semesters.

DAA 2681r. Special Dance Performance (0–1). (S/U grade only.) This course provides experience in dance ensemble and performance work. This course also includes weekly attendance at the School of Dance Forum for both Fall and Spring semesters. May be repeated to a maximum of three semester hours.

DAA 3684r. Dance Ensemble (0–1). (S/U grade only.) This course provides experience in dance ensemble and performance work and weekly attendance at the School of Dance Forum for both Fall and Spring semesters. May be repeated to a maximum of three semester hours.

DAA 3695r. Dance Performance (1–2). This course includes preparation and public performance of selected roles in dance repertory. Official casting and faculty approval required. Majors only. May be repeated to a maximum of sixteen semester hours.

DAA 4685r. Dance Ensemble (0–1). (S/U grade only.) This course provides experience in dance ensemble and performance work and weekly attendance at the School of Dance Forum for both Fall and Spring semesters. May be repeated to a maximum of three semester hours.

Dance Composition and Repertory

DAA 2610. Dance Composition (2). Prerequisites: DAN 2610 and major status. This course explores basic rhythmic, spatial, and dynamic materials in the designing of dance movements; improvisation and exploration of various ideological and aesthetic sources.

DAA 3150Cr. Contact Improvisation (1-2). This course examines notions of community and human connection within the technical training of Contact Improvisation. Students look at how the skills of falling, being off balance, and fully trusting a partner prepare the dancer for improvisational dancing and partner work.

DAA 3614. Dance Composition (3). Prerequisite: DAN 2611. This course is a study of choreographic forms and structures, musical forms, extended temporal and dynamic studies, components of dramatic and stylistic forms, use of dance technology compositionally.

DAA 3654r. Choreography–Repertory (2). Prerequisite: Instructor permission. This course covers the study and practice of selected works of dance repertory. May be repeated to a maximum of sixteen semester hours.

DAA 4615. Dance Composition (3). Prerequisites: DAA 3614; instructor permission. This course examines the extended choreographic process: production of extended choreographic works.

Rhythmic and Musical Theory

DAN 2610. Rhythmic Analysis (3). This course is an analysis of rhythmic structures and their relationship to dance form and composition.

DAN 2611. Music and Choreography (3). Prerequisite: DAN 2610. This course is an analysis of various elements of music with relationship to dance performance and/or choreography.

Notation and Movement Analysis

DAN 3400. Movement Analysis (3). Prerequisite: DAN 2610. This course introduces and develops a basic understanding of movement-analysis concepts and systems of documentation and reconstruction. An historical survey of dance notation systems and movement analysis theories is conducted. Theoretical materials are examined through emphasis on movement observation, writing and reading skills, and creative use of concepts.

DAN 3445. Labanotation (5). Prerequisite: DAN 2610. This course introduces and develops beginning through intermediate skills. Theoretical materials in labanotation are examined with emphasis on writing and developing reading skills.

DAN 3714. Dance Kinesiology (3). This course covers the study of movement theories and body alignment for the technical aspects of dance performance.

DAN 3744r. Dance Conditioning (2). This course is a studio laboratory for concepts in movement theory and body alignment. May be repeated to a maximum of four semester hours.

Dance Production and Technology

DAN 2500r. Introduction to Design (1). This course examines the basic vocabulary, understanding, and appreciation of the design process in dance production. May be repeated to a maximum of two semester hours.

DAN 3504. Dance Production (2). Prerequisite: Instructor permission. This course studies the technical aspects of production.

DAN 3584r. Dance Theatre Laboratory (1). This course covers assigned problems in connection with current dance theatre production. May be repeated to a maximum of four semester hours.

DAN 4418r. Survey of Dance Technologies (3). This course provides training and aesthetic guidance for dance artists through the generation of computer-assisted imagery. It sets a foundation for future work in the areas of dance documentation, preservation, creation, promotion, and multimedia performance. May be repeated a maximum of six semester hours.

DAN 4420r. Dance and Video (2). Prerequisite: DAN 4418. This course includes the study of camera techniques for the screen and projection design for stage. The course is conducted in two units. The first unit explores concert dance documentation and videodance production. The second unit explores visual media design for the theater. These units may be taken concurrently in the same semester or sequentially for two credits each to a maximum of eight semester hours.

DAN 4421. Photography for Dance (2). This course addresses the representation of dance and dancers in two dimensional non-time based photographic media. It involves hands-on camera work and post-production editing.

DAN 4484. Documentation Techniques (3). Prerequisite: DAN 4418. This course instructs students in capturing the art of motion, combining hands-on experience with reading, discussion, and critique to develop technical skills and aesthetic awareness related to the documentation of concert dance.

DAN 4501. Production and Stage Management for Dance (3). This course introduces students to the foundations of stage and production management for dance. Students cover basic coursework in resource and project management, as well as theoretical and practical experience in stage management.

History and Theory of Dance

DAN 2100. Dance Appreciation (3). This course is a survey of the development of dance in human culture with emphasis on dance as an art form. The major periods of dance history, choreographic masterworks, and artists in choreography and performance are explored through readings, discussion, media presentation, live performances, and movement laboratories. No prior dance experience is required.

DAN 3144. Cultural Perspectives on Dance (3). This course surveys approaches to the study of global dance perspectives and practices through emphasis on dance as expression of cultural, historical, social and political forces. Issues of tradition and innovation in select dance phenomena are especially explored through readings, discussion, media presentation, embodied experiences, and movement laboratories. While movement is a key component of this course, no prior dance experience is required.

DAN 3145. Classical Perspectives on Dance (3). This course introduces students to the history of ballet through a comparative study of classical dance forms around the world. Exploring what constitutes 'classical' and reinventing classical, the course also focuses on larger cultural and historical movements as they influenced (or reflected) the codification of dance technique, gender theories of performance, and the role of dance in society. Students investigate these concepts through open, in-class conversations, the screening of classical dance works, and the reading and writing of critical essays and dance reviews.

DAN 3146. Contemporary Perspectives on Dance (3). This course introduces students to a comparative study of contemporary dance forms, predominantly in Western culture. The course traces the development of modern and contemporary dance as reflective of larger cultural and historical movements, focusing on the codification of dance technique, gender theories of performance, and the role of dance in society.

DAN 3185. African-American Perspectives on Dance (3). This course examines how cultural and artistic expression can both integrate and divide different groups of people along lines of race, gender, and class using African American dance as the central focus.

DAN 4182. Dancing in the Movies (3). This course traces the evolution of dance in the American popular film industry. Emphasis will be placed on how movies encapsulate popular stereotypes and icons, revealing the roles of gender, race, fashion, economic and political forces.

DAN 4951r. New York City: Arts and Resources (3). This course investigates, experientially and academically, New York City's resources. Using performances and exhibitions as the center point, the relationships among the various elements that compose an urban art event are explored. May be repeated within the same semester. May be repeated to a maximum of six semester hours.

Pedagogy

DAE 3384. Methods and Materials in Dance Education (3). This course studies the principles of learning and how they inform the processes of designing lessons and teaching dance. Includes a teaching practicum in local schools in addition to coursework on campus.

Other Courses

DAN 2101. Introduction to the Dance Profession (3). This course orients new BFA dance majors to professions in dance, exploring the complexities of careers in performance and related areas. Students develop a working knowledge of ballet and contemporary dance traditions and history, using a variety of experiences within the classes, including lectures, videos, studio sessions, guest presentations and panels, and live performance.

DAN 3125C. MANCC Experience (3). This course explores the Maggie Allesee National Center for Choreography (MANCC) experience with focus on ideas surrounding dance collaborations and process-oriented work, especially contextualization of and interaction with visiting MANCC artists and their current projects. The course also engages students in discussions related to dance research, aesthetics, and history in order for students to become more familiar with MANCC and to support how students envision contributing to the current professional dance field once they graduate.

DAN 4747r. Targeted Cross-Training for Dancers (1-2). Prerequisites: Dance major status and instructor permission. This course provides a structure to help dancers (re) build the capacities they need to participate fully in dance technique classes, rehearsals, and performances following injury.

DAN 4760. Gyrotonic Methodology (3). This course introduces students to the GYROTONIC® specialized exercise system. The course demonstrates how Gyrotonic offers enhanced freedom of movement with exercises executed on the professional Pulley Tower machine. Students learn how this approach systematically works joints and muscles while stimulating the body's internal organs with corresponding breathing patterns. Students' personal cross training interests are included in the course.

DAN 4900r. Honors Study in Dance (1–6). Prerequisite: Admission to honors in dance program. Written thesis for creative or academic research done as part of the honors in dance program. May be repeated to a maximum of nine semester hours.

DAN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

DAN 4910r. Dance Internship (1–6). This course is a supervised internship to provide students with professional experience in their field. Design of the internship is developed by the student and intern host in consultation with the academic advisor. May be repeated in the same semester with instructor permission to a maximum of twelve semester hours.

DAN 4935r. Special Topics in Dance (1–3). Prerequisites: Vary depending on topic. In this course, topics may vary from term to term. May be repeated to an unlimited number of hours.

DAN 4971. Senior Capstone Experience (3). This course will provide senior dance majors with opportunities to develop a significant, original project through the cultivation of an individual studio or related studies practice and semester portfolio. The course aims to prepare students for entering the field after graduation from the BFA program. Emphasis is placed on verbal articulations of creative process as well as thoughtful critiques of dance works.

IDS 2373. From Ballet to Beyonce: Gender and the Body in Dance and Pop Culture (3). This course uses dance and popular culture performances to explore current trends and issues in American gender. Through discussion, video viewings, and accessible readings, students explore the ways in which the moving body reflects and shapes identity. No previous movement experience necessary for this seminar.

Graduate Courses

DAA 5118r. Contemporary Dance (1–3).

DAA 5218r. Ballet (1–3).

DAA 5228r. Graduate Pointe Technique and Repertory (1).

DAA 5618. Choreography (3).
DAA 5647. Choreographic Process (2).
DAA 5648r. Choreographic Project (2–6). (S/U grade only.)
DAA 5688r. Dance Ensemble (1). (S/U grade only.)
DAA 5698r. Dance Performance (1–2).
DAE 5305. Science of Dance Training (3).
DAE 5387. Dance History Pedagogy (3).
DAE 5940. Supervised Teaching (2). (S/U grade only.)
DAN 5126r. Current Issues in Dance History, Theory, and Research (1–3).
DAN 5127C. MANCC Experience (3).
DAN 5128. Theory of Dance (3).
DAN 5147. Dance Practices of the Global Gulf (3).
DAN 5148. Dance Migrations and Mobilities (3).
DAN 5149. Contemporary Stage and Social Movements (3).
DAN 5158. Theory of Dance Performance and Directing (3).
DAN 5190. Theory and Practice in Dance Technique (2).
DAN 5191r. Seminar in Dance Research (3–6).
DAN 5193. History of African-American Social Dance of the Twentieth Century (3).
DAN 5194. Dancing in the Movies (3).
DAN 5486. Documentation Techniques (3).
DAN 5507. Production and Stage Management for Dance (3).
DAN 5508. Visual Design for Choreography (3).
DAN 5590. Studies in Dance Technology (2).
DAN 5591r. Dance and Video (2).
DAN 5592. Screendance Composition (2).
DAN 5596. Photography for Dance (2).
DAN 5650. Music Praxes in Dance (2).
DAN 5748. Targeted Cross-Training for Dancers (1-2).
DAN 5765. Gyrotonic Methodology (3).
DAN 5905r. Directed Individual Study (1–3).
DAN 5910. Supervised Research (2). (S/U grade only.)
DAN 5930r. Special Topics in Dance (1–3).
DAN 5940r. Dance Internship (1–12).
DAN 5950r. New York City: Arts and Resources (3).

For listings relating to master's examinations and defense, consult the *Graduate Bulletin*.

DEMOGRAPHY:
see *Graduate Bulletin*

DEVELOPING AREAS, PLANNING FOR:
see Urban and Regional Planning

DIETETICS:
see Nutrition, Food and Exercise Sciences

EARLY CHILDHOOD EDUCATION:
see Childhood Education, Reading, and Disability Services

Undergraduate Department of EARTH, OCEAN, AND ATMOSPHERIC SCIENCE

College of Arts and Sciences

Website: *http://www.eoas.fsu.edu/*

Chair: Vincent Salters; **Professors:** Bourassa, Cai, Chanton, Chassignet, Clarke, Dewar, Fuelberg, Hart, Huettel, Humayun, Landing, Liu, MacDonald, Misra, Nicholson, Odom, Ray, Salters, Speer, Tull, Wang, Ye; **Associate Professors:** Ahlquist, Baco-Taylor, Kish, Knapp, Mason, Mookheriee, Parker, Spencer, Stukel, Sura, Wu; **Assistant Professors:** Atwood, Chagnon, Fan, Fuentes, Holmes, Kranz, Owens, Parfitt, Wing, Young; **Professors Emeriti:** Barcilon, Burnett, Ellingson, Gleeson, Hsueh, Krishnamurti, LaSeur, Long, Loper, Nof, O'Brien, Pfeffer, Staley, Stern, Sturges, Thistle, Weatherly, Winchester

In 2010, the departments of Geological Sciences, Oceanography, and Meteorology merged to form the department of Earth, Ocean, and Atmospheric Science (EOAS). While retaining their perspective programmatic focus, the geology, oceanography, and meteorology faculty offer a new level of interdisciplinary integration. This creates fresh opportunities for undergraduate and graduate education in the geosciences. The department provides students with an opportunity for holistic study of Earth's physical environment in preparation for professional careers in government, private, and academic sectors. Due to concerns about climate change, environmental sustainability, availability of natural resources, and environmental pollution and degradation, the U.S. Bureau of Labor Statistics projects an overall 14% increase in geoscience-related occupations between 2016 and 2026, which is 7% faster than the growth rate for all U.S. occupations. The opportunities for study and the degree requirements are described below:

- a Bachelor of Science in Environmental Science
- a Bachelor of Arts in Environmental Science and Policy
- a Bachelor of Science in Geology
- a Bachelor of Science in Meteorology
- FSU Teach Geoscience Program (BS)
- FSU Teach Environmental Science Program (BS)

The Department of Earth, Ocean, and Atmospheric Science maintains the resources of the three original departments. Our oceanography and meteorology programs are among the leading programs in the country. Our meteorology program is the flagship program in the southeastern United States and is considered to be one of the top five comprehensive meteorology programs in the nation.

Research programs may be conducted within the department, or they may involve collaborative work with members of the departments of Physics and Chemistry, the College of Engineering, the Geophysical Fluid Dynamics Institute, the Department of Scientific Computing, the Center for Ocean and Atmospheric Prediction Studies, and the National High Magnetic Field Laboratory. Within EOAS, the Geology department conducts cooperative programs with the Florida Geological Survey, Northwest Florida Water Management District, Florida Department of Environmental Protection, Florida Fish and Wildlife Commission, and the United States Geological Survey.

The **Florida Climate Center** and **Office of the State Climatologist** are housed in the department and are equipped with archives of Florida weather and climate records. An instrumentation facility is also housed in the department, including data loggers and a variety of modern and historical instruments, and a rooftop meteorological tower for real-time local observations. The **National Weather Service Forecast Office**, located within the department, facilitates interactions between students and professional operational forecasters.

The department has a complete television studio equipped with state-of-the-art broadcasting technology, where students prepare weathercasts for class (MET 3940) and for regular broadcasts on Florida State University's cable television channel, which is seen in surrounding counties and streamed over the Internet. Students often use this experience to develop internships with television stations and to gain employment. Other internship opportunities through private companies or state, local, or federal agencies also are possible. In particular, partnerships and internships with the headquarters of state government agencies located in Tallahassee continue to offer opportunities for our students.

Available for use on student projects is a full array of equipment for investigating radon and radium in the environment, and three mass spectrophotometers capable of measuring stable isotope ratios. The department has equipment for investigating carbon dynamics including greenhouse gasses in the laboratory and the field. The geochemistry program at the **National High Magnetic Field Laboratory** has facilities to measure trace level concentrations of most elements of the periodic table as well as measure the isotopic com-

position of many stable and radioactive elements. These capabilities allow researchers to fingerprint the sources of different elements in the environment as well as to trace chemical processes. Students and faculty have access to five different types of mass spectrometers to take measurements based on their area of specialization. The laboratories also include a "clean lab" which allows processing of small samples as well as determining concentrations at very low levels. The department also houses a large array of equipment for investigation of microbial ecology including equipment for the cultivation of anaerobic microorganisms.

Graduate Study in Earth, Ocean, and Atmospheric Science

Earth, Ocean, and Atmospheric Science offers the Master of Science (MS) and Doctor of Philosophy (PhD) in Geology, Meteorology, and Oceanography, a non-thesis Master of Science in Aquatic Environmental Science, and a Professional Science Master's in Aquatic Environmental Science, a Law and Aquatic Environmental Science and a Physical Environmental Science PhD program.

Undergraduates interested in Oceanography or Geology graduate degrees will find the Environmental Science BS degree excellent preparation for graduate study. Students may choose a specific area of emphasis including geology (coursework will permit graduates to take the examination leading to Professional Geologist Certification), environmental engineering, biogeochemistry, atmospheric science, or marine biology.

Environmental Science

Earth, Ocean, and Atmospheric Science offers two degrees in Environmental Science. Environmental Science is the interdisciplinary study of environmental systems from a scientific perspective. Drawing principally from the areas of oceanography, geology, and meteorology, the Bachelor of Science in Environmental Science will prepare students in the broader and technical area of geoscience where the greatest expansion in employment opportunities is predicted. It is an attractive option for students seeking a broader interdisciplinary major with the rigor of mathematics and the physical sciences at its core. The BS degree will provide a strong basis for graduate study in environmental and earth sciences.

The department also offers a Bachelor of Arts degree in Environmental Science and Policy. The BA degree differs from the BS degree in lower-level mathematics requirements and a greater emphasis on policy. These programs aim to prepare exceptionally well-qualified graduates equipped to work in the interdisciplinary earth sciences, whether in government agencies, NGOs, or the private sector. For additional information, see the department's Web site at *http://www.eoas.fsu.edu/*.

Geology

Earth, Ocean, and Atmospheric Science offers the Bachelor of Science (BS), Master of Science (MS), and Doctor of Philosophy (PhD) in geology. Emphasis is on fundamental applications of chemistry, physics, biology, and the scientific method in the study of the earth; field experience is also stressed. Faculty members offer coursework in many areas of surficial, tectonic, environmental, and stratigraphic geology; hydrology; and geochemistry.

The major program is intended to provide a well-rounded introduction to the study of the Earth as well as to prepare the student for more advanced study in the fields of natural resources, environmental planning, oceanography, geophysics, and other earth science specialties.

Various scholarships are offered (and part-time work is available) within Earth, Ocean, and Atmospheric Sciences, with the Florida Geological Survey of the Florida Department of Environmental Protection and with other agencies of the state and federal governments.

Honors in the major can be earned by talented juniors and seniors by engaging in an independent project ending in an honors thesis. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Meteorology

Earth, Ocean, and Atmospheric Science offers the Bachelor of Science (BS), Master of Science (MS), and Doctor of Philosophy (PhD) in meteorology. By tradition, meteorology is divided into four branches: physical, dynamical, synoptic, and applied meteorology. Physical meteorologists deal with such areas as the physics of rain formation, atmospheric electricity, and radiative transfer and remote sensing. Dynamical meteorologists work in such areas as the mathematical representation of atmospheric flow patterns and the numerical prediction of these patterns. Synoptic meteorologists are involved with the description of atmospheric disturbances and with weather forecasting. Applied meteorologists deal with the application of meteorological and climatological knowledge to such areas as agriculture, architecture, ecology, and air pollution. The undergraduate program provides a broad overview of these branches of meteorology while graduate students are encouraged to specialize in one of them. Meteorologists are needed in research, forecasting, and operational positions to study, interpret, and predict weather and climate processes and patterns and to relate these to human activities. Severe storms, floods, droughts, and air pollution are examples of atmospheric phenomena, which influence health, transportation, agriculture, and business activities.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in applied geosciences/FSU-Teach satisfy this requirement by earning a grade of "C–" or higher in ISC 3523C. Undergraduate majors in environmental science and environmental science and policy satisfy this requirement by earning a grade of "C–" or higher in BSC 2010L. Undergraduate majors in geology satisfy this requirement by earning a grade of "C–" or higher in CGS 2060. Undergraduate majors in meteorology satisfy this requirement by earning a grade of "C–" or higher in MET 3220C.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Applied Geosciences, FSU-Teach

1. MAC X311
2. PHY X048/X048L or PHY X053/X053L
3. CHM X045/X045L and CHM X046/X046L, or CHM X045C and CHM X046C
4. SMT X043
5. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 when admitted to upper division.

Environmental Science

Environmental Science BS

1. BSC X010/X010L
2. BSC X011/X011L
3. CHM X045/X045L
4. CHM X046/X046L
5. PHY X053/X053L or PHY X048/X048L
6. GLY X010C or GLY X010/X010L
7. STA X122 or ISC X3253C

Environmental Science and Policy BA

1. BSC X010/X010L
2. CHM X045/X045L
3. MAC X105
4. MAT X140 or STA 2122
5. BSC X011/X011L or CHM X046/X046L
6. GLY X010C or GLY X010/X010L

Geology

1. CHM X045/X045L, or CHM X040 and CHM X041, or CHM X045C
2. CHMX046/X046L or CHM X046C
3. MAC X311 or MTH X281
4. MAC X312 or STA 2122
5. GLY X010C or GLY X010/X010L

6. PHY X048C and PHY X049C, or PHY X048/X048L and PHY X049/X049L, or PHY X053C and PHY X054C
7. XXX XXXX: Historical Geology is strongly recommended.

Note: The choice of Physics sequence depends on the area of geology specialization.

Meteorology

1. MAC X311
2. MAC X312
3. MAC X313
4. MAP 2303
5. PHY X048C/X048L and PHY X049/X049L, or PHY X048C and PHY X049C
6. CHM X045/X045L or CHM X045C
7. STA 3032

Note: Transfer students will be able to take SMT X043 and SMT X053 when admitted to upper division.

FSU-Teach Program in Applied Geosciences

FSU-Teach is an innovative approach to teacher education that involves a collaboration between scientists, mathematicians, and education faculty at Florida State University. In Applied Geosciences/FSU-Teach, students will develop deep science or mathematic knowledge and the knowledge, skills, and experience needed to be an effective science or math teacher. The program includes coursework in meteorology, geology, oceanography, hydrology, and astronomy. The program will pay for tuition for the first two science/teaching courses. Internship positions with scientists, mathematicians, and local schools are available. This is a double-major only program. FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case Applied Geosciences. Later, students apply for admission into a secondary major within the College of Education called Science Teaching/FSU Teach. Upon graduation, students are awarded the BS degree with majors in Applied Geosciences/FSU-Teach and Science Teaching. For more information, see our Web site: *http://fsu-teach.fsu.edu*.

Progress in this major and formal admission to FSU-Teach and Teacher Education

FSU native and transfer students will progress to upper-division (junior) status in the College of Arts and Sciences in the same manner as other Interdisciplinary majors: an AA degree or fifty-two earned credits (including at least half of the general education requirement to include English composition and mathematics), at least a 2.5 GPA, and completion of appropriate milestones. Once these are complete, the student must complete an "Undergraduate Application to Teacher Education" in *2301 Stone Building*, at which time the second major in Education will be added.

Required courses for the Applied Geosciences Major

Geosciences Coursework

AST 1002 Planets, Stars, and Galaxies (3)
ESC 3100C History of Earth Systems (4)
GLY 2010C Physical Geology (4)
GLY 4820 Principles of Hydrology (3)
GEO 2200C Physical Geography (3)
MET 1010L Introductory Meteorology Laboratory (1)
MET 2507C Weather Analysis and Forecasting (2)
MET 2700 General Meteorology (3)
OCE 4008 Principles of Oceanography (3)
OCE 4017 Current Issues in Environmental Science (3)

OR

GLY 3039 Energy, Resources, and the Environment (3)
EVR 4922 Environmental Science Capstone (4)

Required courses for the Education major

HIS 3505 Perspectives on Science and Mathematics (3)
ISC 3523C Research Methods (3)
RED 4335 Literacy Across the Content Areas (3)
SMT 1043 Step 1: Inquiry Approaches to Teaching (1)
SMT 1053 Step 2: Inquiry-Based Lesson Design in Science/Mathematics (1)
SMT 3100 Knowing and Learning in Science and Mathematics (FSU-Teach) (3)
SMT 4301 Classroom Interactions (FSU-Teach) (3)
SMT 4664 Project Based Instruction (FSU-Teach) (3)
SMT 4930 Apprentice Teaching Seminar (FSU-Teach) (1–4)
SMT 4945 Apprentice Teaching (FSU-Teach) (5)
TSL 4324 ESOL Instruction in the Content Areas (3)

FSU-Teach Program in Environmental Science

FSU-Teach is an innovative approach to teacher education that involves collaboration between scientists, mathematicians, and education faculty at Florida State University. In Environmental Science/FSU-Teach, students will develop environmental science knowledge and the knowledge, skill, and experience needed to be an effective science teacher. Science coursework will include courses in meteorology, geology, oceanography, hydrology, and astronomy. The program will pay for tuition for the first two Education/Teaching courses. For more information, see our Web site, *http://fsu-teach.fsu.edu/*.

This is a double-major only program. FSU-Teach majors are first admitted into their primary, discipline-specific major and must meet the state-wide common program prerequisites for that major, in this case Environmental Science. Later, students apply for admission into a secondary major within the College of Education called Secondary Science or Mathematics Teaching. Upon graduation, students are awarded the BS degree with majors in Environmental Science and Secondary Science or Mathematics Teaching. Environmental Science is the interdisciplinary study of environmental systems from a scientific perspective. Drawing principally from the areas of oceanography, geology, meteorology, biology, and chemistry, the Environmental Science program will prepare students in the broader area of geosciences and is an attractive option for students seeking a broader interdisciplinary major with the rigor of mathematics and the physical sciences at its core.

Environmental Science Core courses

AST 1002 Planets, Stars, and Galaxies (3)
ESC 3100C History of Earth Systems (4)
GLY 4751C Introduction to Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (3)

OR

GIS 4043 Geographic Information Systems (3)

AND

GIS 4043L GIS Lab (1)
MET 1010 Introduction to the Atmosphere (3)

OR

MET 2700 General Meteorology (3)
OCE 4008 Principles of Oceanography (3)
OCE 4017 Current Issues in Environmental Science (3)

OR

GLY 3039 Energy, Resources, and the Environment (3)
EVR 4922 Environmental Science Capstone (4)

Required Courses for the Education Major

HIS 3505 Perspectives on Science and Mathematics (3)
ISC 3523C Research Methods (3) (counts for both Environmental Science and Education requirements)
RED 4335 Literacy Across the Content Areas (3)
SMT 1043 Step 1: Inquiry Approaches to Teaching (1)
SMT 1053 Step 2: Inquiry-Based Lesson Design in Science/Mathematics (1)
SMT 3100 Knowing and Learning in Science and Mathematics (FSU Teach) (3)
SMT 4301 Classroom Interactions (FSU-Teach) (3)
SMT 4664 Project Based Instruction (FSU-Teach) (3)
SMT 4930 Apprentice Teaching Seminar (FSU-Teach) (1–4)
SMT 4945 Apprentice Teaching (FSU-Teach) (5)
TSL 4324 ESOL Instruction in the Content Areas (3)

Bachelor of Science in Environmental Science

Students should complete the prerequisite coursework for entrance to the major program of study. All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

A minimum of forty semester hours, as specified below, is required. No required course in which a student has earned a grade below "C–" may be applied toward the degree in Environmental Science.
A student who has received more than three unsatisfactory grades (U, F, D–, D, D+) in science or mathematics courses (and their prerequisites), excluding the Term 1-4 State Common Prerequisites milestone courses, after entry into the program, will not be permitted to graduate with a degree in this major.

Coursework and Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Environmental Science Core courses (nineteen to twenty hours)

GLY 4751C Introduction to Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (3) or if not available substitute GIS 4043 Geographic Information Processing and Systems (3) and GIS 4043L GIS Lab (1)

MET 1010 Introduction to the Atmosphere (3)

OR

MET 2700 General Meteorology (3)

OCE 4008 Principles of Oceanography (3)

OCE 4017 Current Issues in Environmental Science (3)

OR

GLY 3039 Energy, Resources, and the Environment (3)

EVR 4922 Environmental Science Capstone (4)

Environmental Science Elective courses: Choose a total of twenty-one hours, twelve of which must be selected from List 1 and the remaining nine hours from any of the elective lists below. Students must make sure to satisfy all course prerequisites.

Geoscience Elective Courses:

EOC 4631 Marine Pollution (3)

ESC 3100C History of Earth Systems (4) *(Highly recommended by EOAS faculty)*

GLY 3200C Mineralogy and Crystallography (3)

GLY 3310C Igneous and Metamorphic Petrology (3)

GLY 3400C Structural Geology (4)

GLY 3610C Paleontology (4)

GLY 4884 Environmental Geology I (3)

GLY 4905 Directed Individual Study (Geohazards) (3)

MET 2101 Physical Climatology (3)

OR

MET 3103C Climate Change Science (3)

OR

ISC 2003 Global Change: Its Scientific and Human Dimensions (3)

MET 3220C Meteorological Computations (3)

MET 3300 Introduction to Atmospheric Dynamics (3)

MET 3940 Weathercasting (1)

MET 4159r Selected Topics in Meteorology (1–3)

MET 4400C Meteorological Instrumentation and Observation (3)

OCB 4631 Estuarine and Coastal Ecology (3)

OCB 4637 Marine Benthic Ecology (3)

OCC 4002 Basic Chemical Oceanography (3)

OCC 4060 Environmental Science Modeling (3)

OCE 3555 Environmental Science II: Habitable Planet (3)

OCE 4064 Marine Conservation Biology (3)

OCE 4265 Coral Reef Ecology (3)

OCE 4930r Studies in Oceanography (1–4) (Topics vary: Biodiversity, Earth System, Marine Microbial Ecology, Geomicrobiology, Physics and Flow of Water Bodies, Environmental Toxicology, or other select topics)

OCP 4005 Introduction to Physical Oceanography (3)

Other classes are allowed as electives with department permission.

Other related areas of focus:

Environmental Engineering Tools (nine to ten hour maximum)**:**

CGN 2327L Civil Engineering Graphics Lab (1)

CEG 2202C Introduction to Geomatics Engineering (4)

EES 3040 Introduction to Environmental Engineering Science (3)

EES 3040L Environmental Engineering Science Lab (1)

EGM 3512 Engineering Mechanics (4)

EGN 2123 Computer Graphics for Engineers (2)

ENV 4001 Environmental Engineering (3)

ENV 4041 Environmental Systems Analysis (3)

ENV 4341 Solid and Hazardous Waste Engineering (3)

ENV 4405 Water Reuse Engineering (3)

Environmental Geology/Geosciences Focus (nine to ten hour maximum)**:**

GLY 4240 Principles of Geochemistry (3)

GLY 4451 Introduction to Geophysics (3)

GLY 4544C Sedimentation and Stratigraphy (3)

GLY 4820 Principles of Hydrology (3)

GLY 4884 Environmental Geology I (3)

GLY 4905 Directed Individual Study (3)

Environmental Science students with a focus area in GLY, wanting to use Field Camp as their Capstone should take the following coursework:

GLY 3400C Structural Geology (4)

GLY 4544C Sedimentation and Stratigraphy (4)

GLY 4790 Field Course (6)

Biology Focus (nine to ten hour maximum)**:**

BOT 4394 Plant Molecular Biology (3)

BSC 3052 Conservation Biology (3)

BSC 3312 Marine Biology (3)

BSC 3402L Experimental Biology Laboratory (3)

BSC 3930 Seminar in Biological Frontiers (1)

BSC 3938 Careers in the Biological Sciences (1)

BSC 4473C Introduction to Scientific Diving (3) (Faculty Permission Required)

BSC 4933r Selected Topics in Biological Science (1–4)

PCB 3043 General Ecology (3)

PCB 4674 Evolution (3)

ZOO 4454C Biology of Fishes (4)

Chemistry Focus (nine to ten hour maximum)**:**

CHM 2210 Organic Chemistry I (3)

CHM 2211 Organic Chemistry II (3)

CHM 2211L Organic Chemistry II Laboratory (3)

CHM 3120 Analytical Chemistry I (3)

CHM 3120L Analytical Chemistry I Laboratory (1)

CHM 4080 Environmental Chemistry I (3)

CHM 4081 Environmental Chemistry II (3)

Geography/GIS Focus (nine to ten hour maximum)**:**

GEO 4114 Environmental Field Methods (3)

GEO 4162C Spatial Data Analysis (3)

GEO 4340 Living in a Hazardous Environment (3)

GEO 4357 Environmental Conflict and Economic Development (3)

GEO 4376 Landscape Ecology (3)

GEO 4930r Special Topics in Geography (1–3)

GIS 3015 Map Analysis (3)

GIS 4006 Computer Cartography (3)

GIS 4043 Geographic Information Systems (3)

GIS 4043L GIS Lab (1)

Graduate School Preparation:

CHM 2210 Organic Chemistry I (3)

CHM 2211 Organic Chemistry II (3)

CHM 2211L Organic Chemistry II Lab (3)

MAC 2311 Calculus with Analytic Geometry I (4)

MAC 2312 Calculus with Analytic Geometry II (4)

MAC 2313 Calculus with Analytic Geometry III (5)

PHY 2049C General Physics B (five hours at FSU) (5)

Collateral Minor: zero hours beyond required courses.

By completing the requirements of the BS Environmental Science Program, students automatically receive a collateral minor in Earth, Ocean, and Atmospheric Science. Twelve additional hours of coursework in specific elective classes may constitute a specific minor within that field. Talk to your advisor for more information.

Requirements for a Minor in Environmental Science (for non-environmental science majors)

A minimum of fifteen semester hours of Environmental Science courses approved for major credit as follows: two of the following, MET 1010 (or MET 2700), GLY 2010C or OCE 4008, AND any three courses from the Geoscience Elective courses (List 1). Note, only twelve hours are required for current EOAS major students. Courses outside of List 1 electives may be taken by the department.

Bachelor of Arts in Environmental Science and Policy

Students should complete the prerequisite coursework for entrance to the major program of study. All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

A minimum of thirty-seven semester hours, as specified below, is required. No required course in which a student has earned a grade below "C–" may be applied toward the degree in Environmental Science and Policy.

A student who has received more than three unsatisfactory grades (U, F, D–, D, D+) in science or mathematics courses, excluding the Term 1-4 State Common Prerequisites milestone courses, after entry into the program, will not be permitted to graduate with a degree in this major.

Coursework and Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Environmental Science and Policy Core Courses (thirteen hours):

MET 1010 Introduction to the Atmosphere (3)

OR

MET 2700 General Meteorology (3)
OCE 4008 Principles of Oceanography (3)
OCE 4017 Current Issues in Environmental Science (3)

OR

GLY 3039 Energy, Resources, and the Environment (3)
EVR 4922 Environmental Science Capstone (4)

Required Policy Courses Choose six hours from the following list:

PHI 2100 Reasoning and Critical Thinking (3)
PHI 2620 Environmental Ethics (3)
PUP 3002 Introduction to Public Policy (3)
URP 3000 Introduction to Planning and Urban Development (3)
GEO 4471 Political Geography (3)
PAD 4391 Foundations in Emergency Management (3)
URP 4423 Environmental Planning & Resource Management (3)

***Courses outside of these Policy electives may be taken if approved by the department.**

Science and Policy Elective Courses Choose fifteen hours from the following two lists. At least three courses must be taken from List 1. Students must make sure to satisfy all course prerequisites.

List 1

EOC 4631 Marine Pollution (3)
ESC 3100C History of Earth Systems (4) (Highly recommended by EOAS faculty)
GLY 3200C Mineralogy and Crystallography (3)
GLY 3310C Igneous and Metamorphic Petrology (3)
GLY 3400C Structural Geology (4)
GLY 3610C Paleontology (4)
GLY 4240 Principles of Geochemistry (3)
GLY 4544C Sedimentation and Stratigraphy (4)
GLY 4751C Introduction to Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (3)
GLY 4820 Principles of Hydrology (3)
GLY 4884 Environmental Geology I (3)
GLY 4905 Directed Individual Study (Geohazards) (3)
MET 2101 Physical Climatology (3)

OR

MET 3103C Climate Change Science (3)

OR

MET 3220C Meteorological Computations (3)
MET 3300 Introduction to Atmospheric Dynamics (3)
MET 3520 Current Weather Discussion (1)
MET 3940 Weathercasting (1)
MET 4159r Special Topics in Meteorology (1–3)
MET 4400C Meteorological Instrumentation and Observation (3)
OCB 4631 Estuarine and Coastal Ecology (3)
OCB 4637 Marine Benthic Ecology (3)
OCC 4002 Basic Chemical Oceanography (3)
OCC 4060 Environmental Science Modeling (3)
OCE 3555 Environmental Science II: Habitable Planet (3)
OCE 4064 Marine Conservation Biology (3)
OCE 4265 Coral Reef Ecology (3)
OCE 4930r Studies in Oceanography (1–4) (Topics vary: Biodiversity, Earth Systems, Marine Microbial Ecology, Geomicrobiology, Physics and Flow of Water Bodies, Environmental Toxicology, or other select topics) (consent of advisor)
OCP 4005 Introduction to Physical Oceanography (3)

*** Other classes are allowed as electives with departmental permission**

List 2

CHM 1046 General Chemistry II (3) or BSC 2011 Biological Science II (3) If not used as a prerequisite
CHM 4080 Environmental Chemistry I (3)
HFT 3700 Tourism Management and the Environment (3)
URP 3000 Introduction to Planning and Urban Development (3) If not used as a required policy class
URP 4022 Collective Decision Making (3)
URP 4314 Introduction to Growth Management and Comprehensive Planning (3)
URP 4318 Growth Management and Environmental Planning (3)
URP 4402 Sustainable Development Planning in the Americas (3)
URP 4404 River Basin Management and Planning (3)
URP 4423 Introduction to Environmental Planning and Resource Management (3)
URP 4618 Planning for Developing Regions (3)
URP 4710 Introduction to Transportation Issues and Transportation Planning (3)
URP 4741 Introduction to Issues in Housing and Community Development (3)

*** Other classes are allowed as electives with departmental permission.**

Additional Requirements for the Bachelor of Arts Degree (nine hours)

The Bachelor of Arts degree requires nine semester hours in the fields of humanities and/or history in addition to the Liberal Studies and the foreign language requirement.

Minor: A minor is required.

Environmental Science and Policy majors must complete a minimum of twelve hours in an approved minor area. Declare your minor in the Arts and Sciences Dean's office and with an advisor.

Requirements for a Minor in Environmental Science and Policy

A minimum of fifteen semester hours which must include two of the following; MET 1010 (or MET 2700), GLY 2010C or OCE 4008, AND any one course from the Environmental Science and Policy electives, AND two classes from the Required Policy Courses list.

Bachelor of Science in Geology

Students should complete the prerequisite coursework for entrance to the major program of study. All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

A minimum of thirty-eight semester hours, as specified below, is required.

A student who has accumulated more than three grades below "C–" (including grades of U) in mathematics, natural science, and statistics courses taken for college credit, excluding the Term 1-4 State Common Prerequisites milestone courses, after entry into the program, will not be allowed to continue as a geology major.

Coursework and Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Basic Geology courses (twenty-eight hours):

GLY 2010C Physical Geology (with Lab) (4)
ESC 3100C History of Earth Systems (4)
GLY 3200C Mineralogy and Crystallography (3)
GLY 3310C Igneous and Metamorphic Petrology (3)
GLY 3400C Structural Geology (4)
GLY 4544C Sedimentation and Stratigraphy (4)
GLY 4790 Field Course (6)

Geology Elective courses (ten hours) chosen from:

GLY 3039 Energy, Resources, and the Environment (3)
GLY 3610C Paleontology (4)
GLY 4451 Introduction to Geophysics (3)
GLY 4700C Geomorphology (3)
GLY 4750 Geological Field Methods (1)
GLY 4751C Introduction to Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (3)
GLY 4240 Principles of Geochemistry (3)
GLY 4812C Ore Deposits (3)
GLY 4820 Principles of Hydrology (3)
GLY 4884 Environmental Geology I (3)
GLY 4905 Directed Individual Study (3)
GLY 4930 Advanced Topics in Earth Science (3-4)
OCB 4631 Estuarine and Coastal Ecology (3)

Additional electives can be taken from list of GLY graduate courses with instructor's permission.

Minor: The required coursework in math, chemistry, and physics will satisfy the requirement for the minor. However, a student may select other minors in consultation with an advisor.

Requirements for a Minor in Geology

A minimum of twelve semester hours of Geology (GLY) courses approved for major credit including GLY 2010C, ESC 3100C, AND four hours of GLY courses at the 3000 level or above.

Bachelor of Science in Meteorology

The department offers a degree program that prepares students for a diverse number of careers, as well as graduate school. It is highly recommended that students meet regularly with their assigned academic advisor to tailor electives to the students' goals. Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*. A detailed handout for meteorology majors entitled *Undergraduate Program in Meteorology* is available at *https://www.eoas.fsu.edu*.

Meteorology is a quantitative science requiring extensive preparation in mathematics and physics. Freshmen entering the program are urged to take as many advanced placement (AP), College-Level Exemption Program (CLEP), or other exemption examinations as they can in order to realize maximum flexibility.

Meteorology majors are required to complete a graduation check with the academic coordinator at least one semester prior to graduation. Graduating students also must complete a written exit survey in their final semester, and if possible, an exit interview with the departmental representative. This interview will discuss information provided from the written exit survey. The College of Arts and Sciences will not approve graduation without receiving the written exit survey.

Coursework and Requirements

Required meteorology coursework. MET 2101, 2507C, 2700, 3220C, 3300, 4301, 4302, 4420, 4450, 4500C, and 4501C.

Required courses in mathematics begin with MAC 2311 and its prerequisite courses, MAC 1114 and MAC 1140 or 1147. The following courses, required of all meteorology majors, constitute a minor in mathematics: MAC 2311, 2312, 2313; MAP 2302 or 3305. MAP 3306 or 4341 is strongly recommended for those students wishing to attend graduate school.

All students must complete CHM 1045 and 1045L, STA 3032 or STA 4321, PHY 2048C, and PHY 2049C and are encouraged to take PHY 3101. While PHY 3101 is optional, it strengthens one's background for MET 4450 and with PHY 2048C and PHY 2049C qualifies one for a physics minor. Computer science has arranged for a special optional minor for meteorology majors. Their general minor is recommended for anyone considering additional work in computer science. See the "Computer Science" section of this *General Bulletin* for details. Students wishing to pursue a career as a meteorologist with the federal government should study *http://www.opm.gov/qualifications/standards/IORs/gs1300/1340.htm* for the Government's definition of a meteorologist to help them pick electives to maximize their opportunities.

Academic Performance

All 2000- and 3000-level meteorology courses must be completed with a grade of "C" (2.0) or better to continue to the 4000-level major coursework. All other required meteorology, mathematics, chemistry, and physics courses must be completed with a "C minus" or better before taking a course for which the technical course serves as a prerequisite. Students earning less than the necessary grade in one of these courses will be required to retake the course until the required standard is met. Retaking a course often delays graduation by one year. A student who has received more than three unsatisfactory grades (U, F, D minus, D, D+) in courses required for the major, excluding Terms 1-4 Common Program Prerequisite courses, taken after enrolling at FSU, will not be permitted to graduate with a degree in Meteorology. Exception to this policy or reinstatement requires a petition to the meteorology faculty.

A grade point average of at least 2.0 is required for all meteorology courses numbered 2000 or higher. No more than a total of three S/U-grade only MET prefix courses may be used for the total semester hour requirement for a degree in meteorology.

Undergraduate Research

All students, particularly those interested in graduate school, are encouraged to volunteer to assist with research in a faculty member's lab. This work requires a substantial time commitment and typically involves computer skills that are learned and polished through this experience. Qualified students can use this as the basis for an Honors in the Major senior thesis; for more information, see the chapter in this *General Bulletin* titled "University Honors Office and Honor Societies." Dr. Ahlquist is the honors liaison for meteorology. Several of our undergraduates have won the American Meteorological Society Macelwane Award for their undergraduate research, and most were not in the Honors in the Major program. In that case, they can register for MET 4905 Directed Individual Study (DIS) credit, but that is not required.

Requirements for a Minor in Meteorology

A minor in meteorology requires at least twelve credit hours and must be discussed on an individual basis with a meteorology faculty advisor or academic coordinator. The minor typically begins with MET 1010, MET 1010L, MET 2700, and MET 2101, and options exist for the completion of the minor. MET 2700 has prerequisites of CHM 1045, CHM 1045L, and MAC 2311; and a corequisite of PHY 2048C. Additional information is available from the academic coordinator for the Meteorology Program, *2019 EOA Building*. In no case may more than three semester hours in S/U courses apply toward a minor in meteorology.

Definition of Prefixes

EOC—Ocean Engineering
ESC—Earth Science
EVR—Environmental Studies
GLY—Geology
IDS—Interdisciplinary Studies
ISC—Interdisciplinary Sciences
MAP—Mathematics Applied
MET—Meteorology
OCB—Biological Oceanography
OCC—Chemical Oceanography
OCE—General Oceanography
OCG—Geological Oceanography
OCP—Physical Oceanography
PEN—Physical Education Activities (General): Water, Snow, Ice

SCE—Science Education

Undergraduate Courses

Earth Science

ESC 1000. Introductory Earth Science (3). This course is an introduction to the study of planet Earth, its internal dynamics, and surficial weathering, erosion, sedimentary processes, the composition and motion of its oceans and atmosphere, and its origin as part of the solar system. Course credit may not be received for this course and also GLY 1000, GLY 1030, or GLY 2010C.

ESC 3100C. History of Earth Systems (4). Prerequisites: GLY 2010C; or ESC 1000 and ESC 1000L. This course examines the history of the earth, its tectonic, chemical, and biological systems, and how they influence one another. Special attention is given to important tectonic, environmental, and biological events.

GLY 1000. Dynamic Earth (3). This course is an introduction to geology as the study of planet Earth, its internal dynamics, and its surficial weathering, erosion, and sedimentary processes. Course credit may not be received for this course and also GLY 1030 or GLY 2010C.

GLY 1000L. Dynamic Earth Laboratory (1). Pre- or corequisite: GLY 1000 or GLY 1030. This course is a laboratory introduction to geology as the study of plant Earth, specifically a study of minerals, rocks, and maps.

GLY 1001. Earth as a System (3). This course presents a holistic approach to Earth's history with a view toward using that history to explore the planets future. The course explains how interactions of the biosphere, geosphere, hydrosphere, and exosphere are expressed in Earth's ever changing environment.

GLY 1030. Environmental Issues in Geology (3). This course examines environmental issues as they relate to geological phenomena, which include volcanic and earthquake hazards, resource and land-use planning, air and water pollution, waste disposal, glaciation and sea-level change, landslides, flooding, shoreline erosion, and global change issues. Course credit may not be received for this course and also GLY 1000 or 2010C. Credit can be received for taking GLY 1000L.

GLY 1102. Dinosaurs and Disasters on an Evolving Earth (3). This course examines the history of the earth and its organisms as recorded in the fossil and rock record; principles of geological and paleontological research; evolution of the dinosaurs, mass extinctions, and effects of past continental movements on the diversity of life. Course credit may not be received for this course and also GLY 2100. GLY 2100L recommended.

GLY 2010C. Physical Geology (4). Pre- or corequisite: CHM 1045. This course is an introduction to surficial and internal processes affecting a dynamic planet Earth. For majors in geology and natural sciences. Two hour laboratory required. Course credit may not be received for this course and also GLY 1000 or GLY 1030.

GLY 3039. Energy, Resources, and the Environment (3). Prerequisites: GLY 1000 and GLY 2010C, or instructor permission. This course examines the origin of our energy and mineral resources (e.g., fossil fuels, uranium, hydrogen), their global supply, and the environmental impacts of extracting and utilizing these resources. Emphasis is placed on the chemical nature of the resources and the impact on the chemical composition of the ocean/atmosphere and the global heat budget. Field trips, in-class demonstrations, and homework exercises provide firsthand experience.

GLY 3200C. Mineralogy and Crystallography (3). Pre- or corequisites: CHM 1045 and GLY 2010C. This course is an introduction to mineralogy, crystal chemistry, and crystallography. Three hour laboratory required.

GLY 3310C. Igneous and Metamorphic Petrology (3). Prerequisite: GLY 3220C. This course focuses on the classification, description, and origin of igneous and metamorphic rocks; relation of these rocks to tectonic processes. Three hour laboratory required.

GLY 3400C. Structural Geology (4). Prerequisites: GLY 2010, ESC 3100, and GLY 3200C. This course focuses on the theory, processes, mechanics of rock deformation and the deformation of the earth's crust. Field trip is required.

GLY 3610C. Paleontology (4). Prerequisite: ESC 3100C. This course is a review of invertebrate biology, with emphasis on hard-part nomenclature; the occurrence, distribution, evolution, and ecology of fossil invertebrates.

GLY 4240. Principles of Geochemistry (3). Prerequisites: GLY 2010C and basic chemistry. This course focuses on the crystal chemistry of silicates and other minerals; chemical principles applied to igneous, metamorphic, and sedimentary environments and processes; chemistry of natural aqueous systems; chemical equilibria of geologic systems.

GLY 4451. Introduction to Geophysics (3). Prerequisites: MAP 2302 and PHY 2049 or instructor permission. This course explores plate tectonics and earth structure. Current methods of probing the interior: seismology and seismic tomography, geomagnetics, geoid and gravity, geochemistry and geochronology, heat flow, mantle convection, core convection and the geodynamo.

GLY 4544C. Sedimentation and Stratigraphy (4). Prerequisite: GLY 2010C. This course surveys sedimentary rock types, principles of description and classification, sediment genesis and origin of sedimentary deposits, analysis and synthesis of stratigraphic sequences. Topics include: depositional systems; physical and biostratigraphy; geochronology and chronostratigraphy; magnetic, seismic, and sequence stratigraphy; and tectonic vs. climatic controls. Term paper required.

GLY 4700C. Geomorphology (3). Prerequisite: Senior standing. This course is an introduction to the description of landforms and landscapes on the earth's surface. Emphasis is placed on the basic mechanisms that govern landform evolution, and on the history of geomorphic study. Several field trips are required.

GLY 4721. Hydrogeology and Field Methods (3). This course introduces the fundamental principles of groundwater flow and solute transport in aquifers and the interactions between groundwater and the environment. The course also introduces field methods essential for studying groundwater in field conditions.

GLY 4750. Geological Field Methods (1). (S/U grade only.) Corequisite: GLY 3400C. This course provides a working knowledge and some experience of techniques, procedures, and tools that are essential to geological field research, the professional geologist, and the required summer field course.

GLY 4751C. Introduction to Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (3). Prerequisites: GLY 3400C and PHY 2049. This course is an introduction to the study of the earth using photographic and electronic imaging acquired from aircraft and satellites; physics of the interaction between electromagnetic radiation and materials of Earth's surface and hydrosphere; principles of electronic and microwave imaging; and use of digital image analysis and GIS in the study of earth resources and global change.

GLY 4790. Field Course (6). Prerequisites: GLY 3400C and GLY 4750. This course is a series of field problems based largely on exposures of strata and structures. Preparation of geologic maps, sections, and reports.

GLY 4812C. Ore Deposits (3). Prerequisites: GLY 3310C and GLY 3400C. This course is an introduction to the study of metallic ore deposits. Laboratory studies of ores using the reflected light microscope and economic evaluation of ore deposits.

GLY 4820. Principles of Hydrology (3). Prerequisites: CHM 1046 and PHY 2049C. This course focuses on the fundamentals of hydrogeology with an emphasis on groundwater flow and hydrochemistry. Both theory and applications are addressed.

GLY 4884. Environmental Geology I (3). This course examines the application of geologic and geochemical principles to environmental issues. Topics include: an evaluation of contaminants in surface water and ground water; hydrocarbon geochemistry and petroleum storage tank problems; waste management, including solid, toxic, and nuclear waste; air quality issues including radon and asbestos; geologic hazards in upland and coastal areas; environmental geologic methods and instrumentation; quality assurance and quality control in environmental analysis; principles of toxicology; risk assessment and risk management; and environmental assessments.

GLY 4905r. Directed Individual Study (1–9). May be repeated to a maximum of nine semester hours.

GLY 4903r. Advanced Topics in Earth Science (3-4). Consent of instructor required. Topics vary. May be repeated to a maximum of eight semester hours when content changes.

GLY 4915r. Undergraduate Research (1–9). (S/U grade only.) This course includes projects in the Earth, Ocean, and Atmospheric Science department arranged in advance between the student and a member of the teaching faculty of the department. May be repeated to a maximum of nine semester hours.

GLY 4917. Senior Thesis (1). (S/U grade only.) Prerequisite: GLY 4915r. This course consists of a written report and an oral presentation discussing research work done under GLY 4915. The grade is assigned by a committee of three faculty members.

GLY 4930r. Advanced Topics in Earth Science (3-4). Prerequisite: Consent of instructor required. Topics vary. This course may be repeated to a maximum of eight semester hours when content changes.

GLY 4989r. Honors Work (1–6). May be repeated to a maximum of nine (9) credit hours.

IDS 2133. Trilobites to T. Rex: History of Life on Earth (3). This course is an overview of fossil record of life on earth from its first appearance to the dinosaurs. Emphasis is placed on the nature of fossil data, relationship to modern biology and how inferences about life habits are made.

SCE 4939r. Seminar in Contemporary Science, Mathematics, and Science Education (1). This course includes presentations of contemporary and interesting issues in science, mathematics, or academic methods. Content varies from semester to semester. May be repeated to a maximum of four semester hours.

Environmental Science

EOC 4631. Marine Pollution (3). Prerequisite: Understanding of chemical processes. This course introduces students to chemical, physical, and biological aspects of dominant marine pollutants, including dissolved toxic metals, complex organic and inorganic contaminants, and particulate pollutants. Topics cover the sources and types of dominant contaminants, their key characteristics, their pathways (as traced through the marine ecosystem from the source to the sinks), their impact on the environment, as well as approaches that could lead to the reduction or elimination of pollutants in the marine environment.

EVR 1001. Introduction to Environmental Science (3). This course is an introduction to environmental science that covers the basic functioning of the earth's environmental system and human effects on that system.

EVR 1001L. Introduction to Environmental Science Laboratory (1). Corequisite: EVR 1001. This fully on-line, virtual-reality lab course has 8 lab modules covering various aspects of environmental science. Students submit lab reports on-line for each module that include data analysis and graphical interpretation.

EVR 4922. Environmental Science Capstone (4). Corequisite: OCE 4008. This course allows students an opportunity to apply knowledge from coursework to a number of individual and group projects. There is a strong field component conducted on and off campus using techniques in basic surveying, sampling, and safety. Meets Liberal Studies upper division writing skills requirement.

IDS 2240. Sustainable Food and Water: Soil, Animals, Vegetables, and Grain (3). This course provides an overview of the issues involved in food and water security on a planet where a billion people are malnourished, while at the same time another billion are overweight. The course examines the science and sustainability of food production, water quality, and soil development.

ISC 2003. Global Change, Its Scientific and Human Dimensions (3). Prerequisites: Two years high school science and two years high school math. This course covers global environmental change, scientific and human dimensions, and international public policy implications.

Ocean Science

OCB 4631. Estuarine and Coastal Ecology (3). Prerequisite: Understanding of chemical processes. This interdisciplinary course addresses the ecology of estuaries and the part of the inshore waters with which estuaries interact directly. The lectures address the general ecological principles that govern the productivity and diversity of estuaries, including their hydrodynamics, sedimentology, chemistry, as well as plant and animal community structure. Key species of estuarine systems are introduced and cycles of carbon and nutrients are explained.

OCB 4637. Marine Benthic Ecology (3). Pre- or corequisite: ZOO 4203C or instructor permission. This course studies the physical setting and ecological organization of the communities found in the rocky intertidal, in the fouling habitat, on sandy beaches, in subtidal soft bottoms, and in the deep sea. This is presented through lectures, substantial reading, and class discussions.

OCC 4002. Basic Chemical Oceanography (3). Prerequisite: CHM 1046. This course focuses on the chemical composition of seawater, carbon dioxide system, nutrients, trace elements, and biogeochemistry.

OCC 4060. Environmental Science Modeling (3). Prerequisites: MAC 2311, MAC 2312, and either STA 2122 or STA 4102. This course gives students an understanding of explanatory and predictive models of the earth's systems and environmental processes therein. Analytical and numerical methods for solving equations are examined and applied. Discussions cover relevant scientific issues, mathematical and computational procedures, visualization techniques, as well as the use of models in research and decision making.

OCE 1001. Elementary Oceanography (3). Prerequisite: MGF 1106 or MGF 1107. This course studies the structure and motion of the ocean and its environs, properties, populations, and energy budget. Not intended for upper-division science or mathematics majors. Upper-division science or mathematics majors are encouraged instead to take OCE 4008.

OCE 3555. Environmental Science II: Habitable Planet (3). This course explores the earth system at and above the surface of the earth. It combines earth and biological sciences to explore the co-evolution of the earth and life over geological time. Evolution of the hydrosphere, atmosphere, and lithosphere are discussed.

OCE 4008. Principles of Oceanography (3). Prerequisite: A science major or minor status and junior or senior standing. This course focuses on dynamic motions and life processes in the marine environment. Long-term geologic history of the oceans and recent changes caused by man. An overview of oceanography for upper-division students majoring in science, mathematics, or science teaching.

OCE 4017. Current Issues in Environmental Science (3). This course is taught at an introductory level and includes discussions of current ground-breaking research, environmental problems, and approaches to solving them. It consists of presentations by experts on their current research topics or environmental issues.

OCE 4064. Marine Conservation Biology (3). Prerequisite: BSC 2011. This course discusses anthropogenic impacts on the world's marine biological resources and ways to mitigate those impacts. The course begins with a brief overview of some relevant key concepts in marine biology and ecology.

OCE 4265. Coral Reef Ecology (3). Prerequisite: A good basic understanding of biological, chemical, and physical processes. In this course, the student learns the components of warm water coral reef ecosystems, their functions and interactions, and their response to environmental change. The biological, chemical and physical processes that govern the ecology of warm water coral reef ecosystems are addressed as well as the anthropogenic impact on reef ecosystems and the management of coral reef ecosystems.

OCE 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of ten semester hours.

OCE 4906r. Directed Individual Study (1–4). Prerequisite: Instructor permission. May be repeated, subject to limitations that may apply from the individual student's major departments, to a maximum of eighteen semester hours.

OCE 4930r. Studies in Oceanography (1–4). Prerequisite: Instructor permission. Topics vary. May be repeated to a maximum of nine semester hours when content changes.

OCG 3103. The Earth System (3). This course is an examination of the modern approach to understanding Earth's climate history and climate change on a global scale.

OCP 4005. Introduction to Physical Oceanography (3). Prerequisite: MAC 2313. This course examines waves, currents, tides, El Niño, and climate change prediction.

PEN 1136. Theory and Practice of Compressed-Gas Diving (1). This course is an introduction to the field of compressed-gas diving that exposes students to the use of underwater technology and techniques in support of science.

Atmospheric Science

MET 1010. Introduction to the Atmosphere (3). This course covers the structure of the atmosphere; weather processes and weather systems, including climatic processes. Credit may not be received in this course if student has already received credit in 2000-level or higher MET courses.

MET 1010L. Introductory Meteorology Laboratory (1). Prerequisites: MAC 1105 or equivalent and college-level algebra. Corequisite: MET 1010. This course covers data analysis, instruments, and weather system models.

SCE 4835C. Teaching Earth and Space Science (3). This course examines the pedagogical content knowledge needed to teach earth/space science.

SCE 4939r. Seminar in Contemporary Science, Mathematics, and Science Education (1). This course includes presentations of contemporary and interesting issues in science, mathematics, or academic methods. Content varies from semester to semester. May be repeated to a maximum of four semester hours.

Required Courses for Meteorology Majors

MET 2101. Physical Climatology (3). Corequisite: MET 2700. This course covers global distribution of principal climatic elements with emphasis on physical causes. Statistical analysis of distributions of climatological variables.

MET 2507C. Weather Analysis and Forecasting (2). Prerequisite: MET 2700 with a grade of "C" or better. This course is an introduction to meteorological observations, data, codes, and scalar analysis practices. Weather applications software systems and computing environments for meteorological analysis and weather forecasting techniques are examined.

MET 2700. General Meteorology (3). Prerequisites: CHM 1045 and MAC 2311, both with a grade of "C-" or better. Corequisite: PHY 2048C. This course covers atmospheric structure and composition; weather and circulation systems; physics of atmospheric processes, including thermodynamics of dry and moist air.

MET 3220C. Meteorological Computations (3). Prerequisites: MAC 2312 ("C-" or better), MET 2101 ("C" or better), and MET 2700 ("C" or better). This course covers the solution of meteorological problems using computer and statistical programs; distributions of meteorological variables; meteorological programming.

MET 3300. Introduction to Atmospheric Dynamics (3). Prerequisites: MAC 2312 ("C-" or better), PHY 2048C ("C-" or better), and MET 2700 ("C" or better). This course examines a variety of topics, including equations of motion, mass conservation, thermodynamics, vorticity, and geostrophic, gradient and thermal winds.

MET 4301. Atmospheric Dynamics I (4). Prerequisite: MET 3300 with a grade of "C" or better. Corequisites: MAP 2302 or MAP 3305 and MET 4420. This course covers acceleration in rotating curvilinear coordinates; momentum, continuity, and energy equations; geostrophic, gradient, and thermal winds; generalized coordinates; circulation and vorticity theorems; scale analysis; Reynolds stresses; Prandtl and Ekman layers; developing baroclinic systems.

MET 4302. Atmospheric Dynamics II (4). Prerequisites: MET 4301 ("C-" or better), MAP 2302 or MAP 3305 ("C-" or better). This course covers linear perturbation theory; sound, gravity, and Rossby waves; numerical weather prediction; baroclinic and barotropic instability; energetics. An introduction to theory of partial differential equations applied to meteorological problems also is presented.

MET 4420. Atmospheric Physics I (3). Prerequisites: PHY 2048C ("C-" or better), PHY 2049C ("C-" or better), MET 2700 ("C" or better), and MAC 2313 ("C-" or better). This course covers classical equilibrium thermodynamics; first and second law, entropy, phase changes, potentials. Physics of moist air; physics of aerosols; condensation of water vapor on aerosols. Microphysics and dynamics of clouds; growth of ice crystals.

MET 4450. Atmospheric Physics II (3). Prerequisite: MET 4420 with a grade of "C-" or better. This course covers radiative processes in the atmosphere; radiative transfer equation, absorption by gases, Rayleigh scattering. Remote sensing using radars and satellites.

MET 4500C. Synoptic Lecture-Laboratory I: Basic Analysis Techniques (3). Prerequisites: MET 2507C ("C" or better), MET 3300 ("C" or better), or instructor permission. Corequisites: MET 4301 or MET 5311, MET 4420, and CGS 3460 or another programming language. This course covers the analysis of scalar and vector fields, introduction to the three-dimensional structure of atmospheric systems, and thermodynamic diagrams.

MET 4501C. Synoptic Lecture-Laboratory II: Four-Dimensional Structure (4). Prerequisites: MET 4500C or MET 5500C; MET 4301 or MET 5311; MET 4420 or MET 5420; and STA 2122 or equivalent. This course covers synoptic calculation and four-dimensional analysis of weather systems.

Required Courses for FSU-Teach Applied Geosciences

ISC 3523C. Research Methods (3). Prerequisites: SMT 1043 and SMT 1053. In this course, students learn appropriate scientific research methods for several types of research questions. Using the inquiry method of learning, they develop a research question and an experiment to answer it, and then use statistical techniques to analyze their resulting data.

MET 3103C. Climate Change Science (3). Prerequisite: MET 2700 with a grade "C" or better. This course enables students to explore the science behind our understanding of climate change. The course provides an in-depth exploration of the use of proxi, in situ, remote-sensing data, climate models, and their public policy implications. Students gain experience in evaluating internal and external forcings on the climate system and make quantitative assessments of change. The course also gives students an understanding of energy transfer methods between the atmosphere, cryosphere, oceans, and fresh water systems.

Elective Courses for Meteorology Majors

MET 1050. Natural Hazards and Disasters: From Hurricanes to Meteorites (3). This course provides a survey of earth, ocean, and atmospheric sciences through an examination of natural hazards and disasters. The course examines the nature and physical processes that drive the hazards, the dangers associated with it, the scientific methods of forecasting such events, and approaches to their mitigation.

MET 3103C. Climate Change Science (3). Prerequisite: MET 2700. This course enables students to explore the science behind our understanding of climate change. The course provides an in-depth exploration of the use of proxi, in situ, remote-sensing data, climate models, and their public policy implications. Students gain experience in evaluating internal and external forcings on the climate system and make quantitative assessments of change.

MET 3520r. Current Weather Discussion (1). (S/U grade only.) Prerequisite: MET 2700. This course includes discussion of facsimile analysis and prediction materials. Three meetings per week. May be repeated to a maximum of four semester hours.

MET 3940r. Weathercasting (1). (S/U grade only.) Prerequisite: MET 1010. Corequisite: MET 2700. This course includes practice in preparing and presenting weathercasts for radio and television. May be repeated to a maximum of four semester hours.

MET 3949r. Experiential Learning (0). (S/U grade only.) Prerequisite: Instructor permission. This non-credit, experiential learning course offers students an opportunity to gain "real world" on-the-job work experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

MET 4159r. Selected Topics in Meteorology (1–3). Prerequisite: MET 2700 with a grade of "C" or better. Corequisites: MET 2101, MET 3300, and instructor permission. This course covers selected topics in meteorology and climatology not covered in other courses. May be repeated as content changes to a maximum of twelve semester hours.

MET 4400C. Meteorological Instrumentation and Observations (3). Prerequisites: PHY 2048C and MET 2700, both with a grade of "C" or better. This course covers theory and practice of calibration and operation of basic sensors, measurement of temperature, heat flow, fluid flow, pressure, and moisture. Two hours lecture, three hours laboratory.

MET 4705. Operational Meteorology (2). Prerequisite: MET 4500C. This course introduces observational analysis products used in operational weather forecast offices. Topics include applications of radar and satellite data, the various applications of numerical weather prediction, and types of weather forecasts.

MET 4900r. Honors Work (1–6). May be repeated to a maximum of nine semester hours.

MET 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine semester hours.

MET 4945r. Meteorology Internship (1–9). (S/U grade only.) This course is a supervised internship individually assigned to accommodate student's background and objectives. Credit proportional to scope and significance of work. May be repeated to a maximum of nine semester hours.

Graduate Courses

Geology

ESC 5211r. Current Topics in Earth Science (3).
GLY 5265. Nuclear Geology (3).
GLY 5267. Stable Isotopic Tracers in the Environment (3).
GLY 5297r. Advanced Topics in Geochemistry (1–3).
GLY 5395r. Advanced Topics in Petrology (1–3).
GLY 5425. Tectonics (3).
GLY 5455. Introduction to Geophysics (3).
GLY 5465. Geomechanics (3).
GLY 5495r. Advanced Topics in Geophysics (3).
GLY 5497r. Advanced Topics in Structural Geology (1–3).
GLY 5516. Stratigraphy and Sequence Analysis (3).
GLY 5575. Coastal Geology (3).
GLY 5577. Sedimentary Basin Analysis (3).
GLY 5595r. Advanced Topics in Sedimentation and Stratigraphy (1–3).
GLY 5624C. Introduction to Micropaleontology (3).
GLY 5695r. Advanced Topics in Paleontology (1–3).
GLY 5696Cr. Mesozoic Planktonic Calcareous Nannofossils (4–8).
GLY 5697Cr. Cenozoic Planktonic Calcareous Nannofossils (4–8).
GLY 5736. Marine Geology (3).
GLY 5757C. Fundamentals of Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (4).
GLY 5826. Numerical Modeling of Groundwater Flow (3).
GLY 5827. Principles of Hydrology (3).
GLY 5828. Hydrogeology and Field Methods (3).
GLY 5885. Geologic Hazards Assessment (3).
GLY 5887. Environmental Geology I (3).
GLY 5896r. Advanced Topics in Hydrology (1–3).
GLY 5906r. Directed Individual Study (1–12). (S/U grade only.)
GLY 5910r. Supervised Research (1–5). (S/U grade only.)
GLY 5931r. Graduate Seminar (1). (S/U grade only.)
GLY 5940r. Supervised Teaching (1–5). (S/U grade only.)
GLY 6982r. Doctoral Seminar (1). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Oceanography

Core Curriculum

OCB 5050. Basic Biological Oceanography (3).
OCC 5050. Basic Chemical Oceanography (3).
OCP 5050. Basic Physical Oceanography (3).

Biological Oceanography

OCB 5067C. Ecology of Marine Sediments (4).
OCB 5264. Selected Topics in Coral Reef Ecology (3).
OCB 5565. Marine Primary Production (3).
OCB 5635. Selected Topics in Coastal Ocean ology (3).
OCB 5636. Marine Microbial Ecology (3).
OCB 5639. Marine Benthic Ecology (3).

Chemical and Geological Oceanography

OCC 5052. Aquatic Chemistry (3).
OCC 5062. Marine Isotopic Chemistry (3).
OCC 5415. Marine Geochemistry (3).
OCC 5417. Geochemical Ocean Tracers (3).
OCG 5664. Paleoceanography (3).

Physical Oceanography

MAP 5431. Introduction to Fluid Dynamics (3).
MAP 6434r. Advanced Topics in Hydrodynamics (2).
OCP 5056. Introduction to Physical Oceanography (3).
OCP 5160. Ocean Waves (3).
OCP 5256. Fluid Dynamics: Geophysical Applications (3).
OCP 5263. Equatorial Dynamics (3).
OCP 5265. Main Ocean Thermocline (3).
OCP 5285. Dynamic Oceanography (3).
OCP 5551. Physics of the Air-Sea Boundary Layer (3).

Specialized Instruction and Seminar

OCB 5930r. Special Topics in Biological Oceanography (1–3).
OCB 5939r. Biological Oceanography Seminar (1). (S/U grade only.)
OCC 5930r. Special Topics in Chemical Oceanography (1–3).
OCC 5939r. Chemical Oceanography Seminar (1). (S/U grade only.)
OCE 5908r. Directed Individual Study (1–12). (S/U grade only.)
OCE 5910r. Supervised Research (1–5). (S/U grade only.)
OCE 5940r. Supervised Teaching (1–5). (S/U grade only.)
OCP 5930r. Special Topics in Physical Oceanography (1–3).
OCP 5939r. Physical Oceanography Seminar (1). (S/U grade only.)

General

OCE 5009. Advanced General Oceanography (3).
OCE 5009L. Coastal Oceanography and Marine Field Methods (4).
OCE 5018. Current Issues in Environmental Science (3).
OCE 5065. Marine Conservation Biology (3).
OCE 5077. Marine Environment Pollution (3).
OCE 5934r. Capstone Experience (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Meteorology

Dynamical Meteorology

MAP 5431. Introduction to Fluid Dynamics (3).
MAP 6434r. Advanced Topics in Hydrodynamics (3).
MET 5311. Advanced Dynamic Meteorology I (3).
MET 5312. Advanced Dynamic Meteorology II (3).
MET 5340r. Large-Scale Atmospheric Circulations (3).
MET 5406. Satellite Observations and Their Applications in Numerical Weather Prediction (3).
MET 5541r. Dynamical Weather Prediction (3).
MET 6147. Linking Weather and Climate (3).
MET 6308r. Advanced Topics in Dynamical Meteorology (3).
OCP 5256. Fluid Dynamics: Geophysical Applications (3).

Physical Meteorology

MET 5407. Fundamentals of Atmospheric Data Assimilation (3).
MET 5411. Radar Meteorology (3).
MET 5421. Radiative Transfer (3).
MET 5425. Advanced Atmospheric Physics I (3).
MET 5451. Advanced Physical Meteorology II (3).
MET 5455. Cloud Physics (3).
MET 5471. Satellite Remote Sensing of Planetary Atmospheres (3).
MET 6480r. Advanced Topics in Physical Meteorology (3).

Synoptic Meteorology

MET 5505C. Advanced Synoptic Lecture–Laboratory I (3).
MET 5506C. Advanced Synoptic Lecture–Laboratory II (4).
MET 5510C. Midlatitude Synoptic Scale Systems (4).
MET 5511C. Meso-Meteorology Lecture Laboratory (4).
MET 5533. Tropical Meteorology I (3).
MET 5534. Tropical Meteorology II (3).
MET 6561r. Advanced Topics in Synoptic Meteorology (3).

Climatology

MET 5105. Global Climate System (3).
MET 5117. Regional Hydroclimatology (3).
MET 5135. Dynamic Climatology (3).
MET 5607. Atmospheric Chemistry (3).
MET 6155r. Advanced Topics in Climatology (1–3).

Other Courses

MET 5090r. Applied Time Series Analysis (3).
MET 5403C. Meteorological Instruments and Observations (3).
MET 5607. Atmospheric Composition, Chemistry, and Climate (3).
MET 5905r. Directed Individual Study (1–3). (S/U grade only.)
MET 5906r. Directed Individual Study (1–3).
MET 5910r. Supervised Research (1–5). (S/U grade only.)
MET 5930. Master's Seminar (2).
MET 5979r. Supervised Teaching (1–5). (S/U grade only.)
MET 6906r. Directed Individual Study (1–3). (S/U grade only.)
MET 6930r. Doctoral Seminar (1).
OCP 5551. Physics of the Air-Sea Boundary Layer (3).
SCE 5836C. Teaching Earth and Space Science (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

ECOLOGY:
see Biological Science

DeVoe L. Moore Center for the Study of Critical Issues In ECONOMIC POLICY AND GOVERNMENT
Undergraduate Programs

College of Social Sciences and Public Policy

Website: *http://www.coss.fsu.edu/dmc/*
Director: Samuel R. Staley; **Eminent Scholar:** Keith Ihlanfeldt; **Professors:** Benson, Chapin, Clapp, Feiock, Gwartney, Holcombe, Rasmussen

The DeVoe L. Moore Center supports research about the role of government in a market economy, with a special emphasis on state and local regulation, housing, economic development, and social entrepreneurship. As an interdisciplinary unit in the College of Social Sciences and Public Policy, the faculty associated with the center have well-established scholarly reputations in the study of public policy. The faculty and center affiliates regularly teach graduate and undergraduate policy-related courses in the departments of economics, political science, urban planning, and in the Askew School of Public Administration and Policy. In addition to teaching responsibilities, the faculty conduct advanced scholarly research in government, economics, and public affairs as well as applied policy research for use by state and local elected officials.

The center produces publications designed to inform citizens and policy makers how government rules, regulations, and programs affect the economy and individuals. The center also sponsors annual conferences that bring national leaders and scholars to the University to discuss policy questions.

Undergraduate Department of ECONOMICS

College of Social Sciences and Public Policy

Website: *http://www.coss.fsu.edu/economics/*

Chair: Manoj Altolia; **Professors:** Atolia, Cooper, Gwartney, R. Holcombe, Ihlanfeldt, Isaac, Kantor, Marquis, Mason, S. Norrbin, Rasmussen, Ryvkin, Semykina, Schmertmann; **Associate Professors:** Beaumont, Cano Urbina, Hamman, Pevnitskaya, Kitchens, Krishna, Zuehlke; **Assistant Professors:** Baek, Boosey, Dmitriev, Grossman, Kreamer, Rodgers; **Associate Teaching Professors:** Calhoun, L. Holcombe, Lee, O. Norrbin, Sherron; **Assistant Teaching Professors:** Ardakani, Hammock; **Courtesy and Adjunct Professors:** Bergan, Evans, Großer; **Professors Emeriti:** Benson, Canterbery, Cobbe, Downing, Fournier, Laird, Macesich, McCaleb, Rockwood, Schlagenhauf

The Department of Economics offers an excellent curriculum that is as diversified as the discipline itself. The program strives to make undergraduates aware of the critical issues in economic science and policy, to provide them with a basic understanding of the tools needed to analyze those issues, and to prepare them for academic or professional opportunities beyond the baccalaureate degree.

The Department of Economics cooperates in the following interdivisional programs: international affairs, the interdisciplinary program in social science, Asian studies, Russian and East European studies, African American studies, demography, financial mathematics, public health, and social science education.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in economics satisfy this requirement by earning a grade of "C–" or higher in ECO 4421.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Economics – Social Sciences

1. ECO X013 and ECO X023, or ECO XXXX and ECO XXXX: two economics courses for three credit hours each

Requirements

Admission

Admission to the undergraduate program is based upon the availability of faculty and space and upon academic performance. Students with fifty-two or more **acceptable** semester hours, both ECO 2013 and 2023 completed with a grade of "C" (2.0) or better, an overall GPA of 2.5 or better on all attempted coursework at the college level, and in good standing with the University will receive priority consideration but are not guaranteed admission to the program. Upper-division transfer students are evaluated for formal admission to the major after completing their first semester at FSU as a full-time student. All students must meet "mapping" requirements to be admitted to and remain in the upper-division major. Consult *http://www.academic-guide.fsu.edu* for more information.

Major in Economics

Beyond ECO 2013 and ECO 2023, the economics major requires ECO 3101, 3203, 3431, 4421 and an additional fifteen semester hours of upper-division economics electives, including six semester hours in one economics specialty area. See the department's website for a list of specialty areas and classes within those specialty areas. Majors must complete the supporting courses: STA 2023, 2122, or 4321 (choose one); and MAC 1105, 1140, 2233, or 2311 (choose one). Pre-calculus algebra (MAC 1140) is recommended, and calculus is recommended for students contemplating graduate study in economics. A total of three economics internship (ECO 4941) hours and six honors thesis (ECO 4934) hours may count toward elective requirements for the economics major.

Students must maintain an overall average grade of "C" in economics and supporting courses. Majors will not receive credit toward the major requirements for economics courses in which a grade of less than "C–" has been earned. A minimum of eighteen semester hours in economics must be taken at Florida State University. No more than twelve hours of upper-division economics transfer credit will be accepted toward major requirements by the department. Transfer credit intended to satisfy major requirements is subject to the approval of the Undergraduate Director for Economics. If more than six years has elapsed between the last active term of enrollment at FSU and the term of readmission, students seeking readmission to FSU will be subject to the economics major requirements in effect at the time of readmission.

A student majoring in economics must complete the minor requirements specified by a supporting academic department. Recommended minors include business, business analytics, entrepreneurship, mathematics, statistics, computer science, history, psychology, and any of the minors available in the College of Social Sciences.

In accordance with University mapping milestones, undergraduate students who intend to major in economics should take ECO 2013, 2023, and the supporting courses in mathematics and statistics before completing liberal studies. The principles courses (ECO 2013, 2023) may be taken in either order. The department allows students to take the courses in the same semester, but neither recommends nor encourages it.

Academic Performance

No required course in which a student has earned a grade below "C–" may be applied toward any of the degrees in economics. Students must also make a "C" or better in ECO 2013 and ECO 2023.

A student who has received more than two unsatisfactory grades (U, F, D–, D, D+) in the following courses will not be permitted to graduate with a degree offered by the Department of Economics: ECO 2013, MAC 1105, MAC 1114, MAC 1140, MAC 2311, MAC 2233, STA 2023, STA 2122, STA 4321. This rule applies whether these courses are taken at Florida State University or elsewhere, and it includes repeated unsatisfactory grades in the same course.

A student who has received more than four unsatisfactory grades (U, F, D–, D, D+) **total** in economics or mathematics or statistics courses (and their prerequisites) required for any major offered by the Department of Economics, taken at Florida State University or elsewhere, including repeated unsatisfactory grades in the same required course, will not be permitted to graduate with a degree in that major.

Degrees

Majors in economics may be awarded either the Bachelor of Science (BS) or the Bachelor of Arts (BA) degree upon completion of all University requirements for those degrees.

Honors in the Major

Honors-only sections of ECO 2013 and ECO 2023 are offered each Fall and Spring for lower-division Honors students. The Department of Economics offers honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Minor in Economics

A minor requires fifteen semester hours in departmental courses, including ECO 2013 and 2023, each with a grade of "C" or better and at least one course selected from ECO 3101, 3203, 3431, or 4421. Students will not receive credit toward the minor for courses in which a grade less than "C–" has been earned.

Economics minors must have at least a "C" (2.0) grade point average in their economics coursework. ECO 2000 will not count toward the minor. No more than six semester hours of transfer credit will be accepted toward the minor.

Definition of Prefixes

ECO—Economics
ECP—Economic Problems and Policy
ECS—Economic Systems and Development
IDS—Interdisciplinary Studies

Undergraduate Courses

ECO 2000. Introduction to Economics (3). This course is a survey of the discipline for people taking only one economics course. Historical perspective and major principles of theory are presented. Not to be taken by students who have had or who must take ECO 2013 and 2023. Not applicable to the economics major nor the economics minor.

ECO 2013. Principles of Macroeconomics (3). This course explores aggregate economics and national income determination, money and monetary theory, present macroeconomic conditions, and aggregative policy alternatives; theory of international trade and the balance of payments; economic growth and development.

ECO 2023. Principles of Microeconomics (3). This course covers consumption, production, and resource allocations considered from a private and social point of view; microeconomic problems and policy alternatives; economics of inequality and poverty; and comparative economic systems.

ECO 3004. Debating Economic Issues (3). Prerequisites: ECO 2013 and ECO 2023. This course applies economic analysis to current economic policy issues. Topics may include financial markets, Social Security, debt finance, health care, immigration, global climate change and environmental policy, regulation, welfare reform, labor market discrimination, drug policy, and topics selected by students.

ECO 3054. Decision Making Under Risk and Uncertainty (3). Prerequisites: ECO 2013 and ECO 2023. This course is an introduction to the theory of economic decision-making under risk and uncertainty. Emphasis is placed on developing and applying alternative theories of decision making to insurance markets, financial markets, and the negotiation of contracts.

ECO 3101. Intermediate Microeconomic Theory (3). Prerequisites: ECO 2013 and ECO 2023. This course covers various topics such as supply, demand, cost of production, theory of the firm, factor price determination, and other microeconomic resource allocation questions.

ECO 3102. Organizational Theory of the Firm (3). Prerequisites: ECO 2013 and ECO 2023; ECO 3101 and calculus (strongly recommended). This course introduces students to the theory of the firm. Particular emphasis placed on understanding how firms are organized and how they manage their employees using incentives and other economic mechanisms.

ECO 3104. Applied Microeconomic Analysis (3). Prerequisites: ECO 2013; ECO 2023; and STA 2023, STA 2122, or STA 4321. This course examines the applications of microeconomic theory for business and policy analysis. Topics include the theory of the firm, valuation techniques in the absence of market prices, empirical research with accounting, financial and administrative data, theory of supply and business strategy, cost-benefit methods.

ECO 3130. Free to Choose (3). Prerequisites: ECO 2013 and ECO 2023. This course, dealing with liberty and economic freedom, addresses many present and past social issues and public policy decisions.

ECO 3131. Market Ethics (3). Prerequisites: ECO 2013 and ECO 2023. This course examines the vices, virtues, and values of capitalism to evaluate its ethical properties. It is designed to raise questions and clearly-structured issues so that the student can make informed and thoughtful decisions.

ECO 3200. Economics of Asia (3). Prerequisites: ECO 2013 and ECO 2023. This course is a survey of economic development in the economies of East Asia. The course includes an economic analysis of the factors that contributed to the substantial growth in East Asia from 1960-1989 and the subsequent financial crisis that ensued in the 1990s.

ECO 3203. Intermediate Macroeconomic Theory (3). Prerequisites: ECO 2013 and ECO 2023. This course covers the basic model of income determination, emphasizing the roles of real and monetary sectors of the economy. Results of empirical work are surveyed.

ECO 3223. Financial Markets, the Banking System, and Monetary Policy (3). Prerequisites: ECO 2013 and ECO 2023. This course explores the functions of money, bank creation of deposits, and credit; Federal Reserve control of money supply; and monetary theory and policy questions.

ECO 3303. History of Economic Ideas (3). Prerequisite: Any 2000-level ECO course. This course discusses the evolution of economic ideas from ancient Greece to the modern period emphasizing the relationship between developments in economic analysis and cultural/technological changes. Critique of modern economic theory in terms of its sources and logical content.

ECO 3431. Analysis of Economic Data (3). Prerequisites: ECO 2013, ECO 2023, and STA 2023, STA 2122, or STA 4321. This course provides basic skills in graphing and analyzing economics data. The first two blocks of the course are composed of an extensive coverage of probability and statistics that is necessary to understand the theory and practice of regression analysis. The third block of the course is devoted entirely to regression analysis. Some of the concepts discussed in the second and third block of the course are illustrated with widely-used statistics and econometrics software giving the student the opportunity to learn the application of some of the concepts discussed in class to economics data.

ECO 3622. Growth of the American Economy (3). Prerequisites: ECO 2013 and ECO 2023. This course examines the factors in the development of economic forces, resources, institutions, and ideas relating to American economic growth analyzed through growth theories and issue debates on economic history.

ECO 3933r. Special Topics in Economics (3). Prerequisites: ECO 2013 and ECO 2023. This course explores special topics of current interest or of benefit from the specialties of visiting faculty. May be repeated to a maximum of nine semester hours. May be repeated within the same semester.

ECO 4106. Behavioral Economics (3). Prerequisite: ECO 3101. This course examines the consequences for economic analysis when individuals (and groups) deviate from rational behavior in identifiable and predictable ways, and incorporates these systematic biases into more accurate models of economic decision making.

ECO 4132. Economics of Compassion (3). Prerequisites: ECO 2013 and ECO 2023. This course addresses international and domestic issues of compassionate, charitable, and philanthropic activities. It offers an economic framework from which students can critically evaluate public and private actions whose purpose is to eliminate hunger, disease, poverty or other human burdens.

ECO 4165. Economics of Information (3). Prerequisites: ECO 2013, ECO 2023, and MAC 2311. This course covers the theory of Uncertainty and Information. The course first defines uncertainty, information, and describes how the economic agent reacts to it. The course is also devoted to cases where information is endogenous, and can be generated or revealed by agents.

ECO 4270. Economic Growth (3). Prerequisites: ECO 2013 and ECO 2023; ECO 3203 strongly recommended. This course covers the differences in income per capita in/between countries. Topics cover what drives the sustained growth in the standard of living in the United States and other developed countries, how less developed countries might catch up with the developed countries, and what has impeded this process.

ECO 4400. Games and Decisions (3). Prerequisite: ECO 2023; ECO 3101 recommended. This course is a non-technical introduction to strategic decision-making. Focus on situations involving conflict and cooperation and on decision-making under conditions of uncertainty and ignorance. Applies game theory and decision theory to such topics as bargaining and negotiations, contracting, auctions, and voting.

ECO 4401. Intro to Math Economics (3). Prerequisites: ECO 2013, ECO 2023, and MAC 2311. This course uses mathematical techniques such as probability, matrix algebra, and calculus to better understand fundamental principles of economics and applies these techniques to policy analysis.

ECO 4421. Introduction to Econometrics (3). Prerequisite: ECO 3431. This course introduces statistical inference, estimation theory, model building, and forecasting methods. Emphasis is on model building and policy analysis. Extensive use is made of PC econometric software.

ECO 4450. Introduction to Research in Economics (3). Prerequisites: ECO 3431; and ECO 3101 or ECO 3203. This course is research based, and provides an introduction into the world of scholarly research in economics.

ECO 4455. Experimental Economics (3). Prerequisites: ECO 2013 and ECO 2023. This course is an introduction to the use of laboratory experimental economics, a relatively new method of economics research in which the classic model of laboratory experimentation is applied to microeconomics. The course is presented using both traditional lecture format and hands-on participation in different experimental economic formats.

ECO 4504. Public Sector Economics (3). Prerequisite: ECO 2023. This course examines the logic of collective actions, principles of government expenditures, theory and practice in taxation, shifting and incidence of taxes.

ECO 4532. Economic Analysis of Politics (3). Prerequisite: ECO 2023 or instructor permission. This course uses economic models to analyze political decision making. A theory of constitutions is developed and applied to the U.S. Constitution. Models of majority rule decision making and bureaucratic supply are used to develop an understanding of supply and demand in the public sector.

ECO 4554. Economics of State and Local Government (3). Prerequisite: ECO 2023. This course covers state and local revenues, expenditures, and borrowing; intergovernmental relationships.

ECO 4704. International Trade (3). Prerequisites: ECO 2013 and ECO 2023; ECO 3101 recommended. This course discusses the theory of international trade, the gains from trade, tariffs and other trade restrictions, cartels.

ECO 4713. International Finance (3). Prerequisites: ECO 2013 and ECO 2023; ECO 3203 or ECO 3223 recommended. This course focuses on the balance of payments; disequilibrium and adjustments; birth, evolution, and demise of the Bretton Woods System; the managed float; international monetary reform; multinational corporations.

ECO 4905r. Directed Individual Study (1–3). May be repeated to a maximum of six semester hours.

ECO 4934r. Honors Work (1–3). May be repeated to a maximum of nine semester hours.

ECO 4941. Economics Internship (1–6). Prerequisite: Instructor permission. This course is an academic course related to the internship experience. Students are required to submit a weekly description of their internship activities, duties, and responsibilities; to complete a set of assignments; and at the end of the semester, to submit a paper that describes in detail the tasks they performed during the internship and discusses the skills and information required to accomplish each task. Students enrolled for six credit hours must also complete a research paper that integrates their classroom knowledge and work experience.

ECP 3004. Current Economic Issues of the U.S. (3). Prerequisites: ECO 2013 and ECO 2023. This course aims to familiarize students with tools and institutions economists use to form educated and insightful opinions on important current and future issues.

ECP 3010. Economics of Art and Culture (3). Prerequisites: ECO 2013 and ECO 2023. This course allows students to use traditional economic analysis of supply and demand to examine the markets for "high art". Students discover in the class that many of the standard approaches to economic analysis apply to these markets, but there are also features of the art markets that are unique.

ECP 3113. Economics of Population (3). Prerequisites: ECO 2013 and ECO 2023. This course examines determinants and consequences of world population growth and changes, components of population growth in more- and less-developed countries, population and food supply, nonrenewable resource interrelationships.

ECP 3143. Afro-Americans in the American Political Economy (3). Prerequisites: ECO 2013 and ECO 2023. This course examines the market, institutional, governmental, and social processes that have contributed to the economic well-being of African-Americans. Also covers theoretical material related to wage determination, labor market discrimination, and marriage and transitions in family structure, as well as interaction between race and class as determinants of the life chances of African-Americans.

ECP 3203. Labor Economics (3). Prerequisite: ECO 2023 or instructor permission. This course explores theoretical and empirical examination of wage determination, income maintenance programs, labor force, employment, unemployment, functioning of labor markets, and manpower programs.

ECP 3302. Economics of Natural Resources, Energy, and the Environment (3). Prerequisite: Any 2000-level ECO course. This course focuses on the relationship between natural resource availability and growth, capital theory, economics of the environment, the U.S. energy problem and alternatives for the future, an economic appraisal of U.S. energy policy.

ECP 3403. Business Organization and Market Structure (3). Prerequisite: ECO 2023. This course is an introduction to the economic analysis of industry, a survey of market structures, oligopoly and collusion, a variety of commercial practices under imperfect competition, the welfare consequences and policy approaches to the problems of monopoly.

ECP 3451. Economics and the Law (3). Prerequisite: ECO 2023. This course is focused on the impact of the legal system on economic activity and the role of economic analysis in assessing the relative efficiency of alternative legal rules and institutions.

ECP 3617. Land Use, Housing, and Government Regulation (3). Prerequisite: ECO 2023. This course provides the theoretical and institutional machinery for analyzing land, housing and mortgage markets, with special attention given to the intended and unintended effects of government regulation of these markets. Important empirical evidence is also reviewed.

ECP 4006. Economics of Sports (3). Prerequisites: ECO 2013 and ECO 2023. This course presents an economic analysis of sports and entertainment. Focus is on industrial organization of the sports market, public finance and sports, sports labor market, and college and non-profit sports. Similar issues related to entertainment and artistic industries may also be covered.

ECP 4312. Economics of Energy, Environment, and Sustainability (3). Prerequisites: ECO 2023 and ECO 2013. This course explores the idea that in addressing public policy issues involving sustainability of the environment and energy systems, engineering is important for obvious reasons, but without consideration of the human factor, engineering solutions will be incomplete. In the course, students are educated on economic models and analysis of sustainability in energy and environmental systems.

ECP 4413. Government Regulation of Business (3). Prerequisite: ECO 2023. This course is an introduction to the economic analysis of antitrust law and regulation. Topics include price fixing, monopolization, predatory pricing, exclusive dealing, tie-ins, price discrimination, mergers, antitrust enforcement policies, and case studies in economic regulation.

ECP 4505. Economics of Crime (3). Prerequisite: ECO 2013 and ECO 2023. This course examines crime and criminal justice policy using the tools of economics. The focus is on crimes against persons and property, and drug policy. Rational behavior, opportunity cost, markets, bureaucratic behavior, and policy analysis are studied in this context.

ECP 4530. Economics of Health (3). Prerequisites: ECO 2013 and ECO 2023. This course provides an overview of the U.S. health care system and the role that economics plays in advancing our understanding of it. Topics included are the demand for medical care and health insurance, the role and impact of government in funding health care services (Medicare and Medicaid), cost benefit analysis, pharmaceuticals and the FDA, organ donation and vending, as well as health care and insurance in other developed countries. Throughout the course, students have opportunities to improve their writing through instruction and assigned papers.

ECP 4613. Urban Economics (3). Prerequisite: ECO 2023. This course is an analysis of trends in urban economies in the U.S. and elsewhere. Introduction to economic and demographic data sources for analysis of urban areas; issues confronting contemporary urban places.

ECP 4618. Research Methods for Studying Housing, Land, and Mortgage (3). Prerequisite: ECO 2023. This course explores the use of quantitative research methods to evaluate and understand the performance of economies, with a focus on land use, housing, urban economic growth, housing finance and public finance. Each student will be responsible for identifying a research topic, defining the research question, and conducting original research as part of the course through a workshop format supervised by the instructor.

ECS 3022. Social Entrepreneurship and Economic Development (3). This seminar incorporates the practical realities of economic development program implementation into the classroom, using a discussion format and case studies of real world applications. The readings are used to provide a broader context for the discussions of specific cases and more general theories. An emphasis is placed on "lessons learned" and discussion of the constraints and potential for implementing effective economic development programs in low-income areas of the United States and world, with a special focus on cities.

ECS 3200. Economics of Asia (3). Prerequisites: ECO 2013 and ECO 2023. This course is a survey of economic development in the economies of East Asia. The course includes an economic analysis of the factors that contributed to the substantial growth in East Asia from 1960–1989 and the subsequent financial crises that ensued in the 1990s.

ECS 3600. Economics of Native Americans (3). Prerequisites: ECO 2013 and ECO 2023. This course examines and challenges the traditional view that the economic systems of Native Americans before Europeans arrived were communal. The historical evolution of Native economies is considered in light of the evolving relationships (both conflict and cooperation) between Europeans and Natives. Finally, the economic conditions of modern Native American communities are examined.

ECS 4013. Economics of Development (3). Prerequisites: ECO 2013 and ECO 2023. This course presents economic development as a process, description and analysis; alternative overall theories of development; particular problems and policy responses to them; strategic choices in development policy. Main focus on third world economies.

ECS 4431. Economics of the Caribbean (3). Prerequisites: ECO 2013 and ECO 2023. This course provides a detailed introduction to the analysis of economic development of Caribbean countries, including a discussion of the basic characteristics of Caribbean economies, a discussion of alternative theories and models of development, as well as a range of particular economic and social issues of concern to policy makers within Caribbean countries. Focus is on the actions available to Caribbean nations for addressing their development concerns within their region and/or country.

IDS 2198. Making Good Decisions: How to Get the Most Out of Your Money and Life (3). This course is designed to help students develop the ability to make sound decisions for getting the most out their limited resources. The course includes learning the basics of cost-benefit analysis and other fundamental economic principles that are necessary for getting the most out of everyday decisions as well as budgeting and investing strategies for maximizing the return on one's financial portfolio. This course also provides students with entrepreneurial strategies for starting and developing business ideas.

IDS 2391. Why is Good Politics Not Good Economics? (3). This course is designed to help students understand current economic issues so that they can become more informed citizens and voters. Students learn the basics of economic thinking and how markets and the political process work, and then apply these concepts to current economic issues such as minimum wage, legalization of drugs, trade restrictions, and fiscal and monetary policy during an economic crisis.

Graduate Courses

ECO 5005. Economic Principles for International Affairs (3).
ECO 5056. Decision Making Under Risk and Uncertainty (3).
ECO 5114. Applied Microeconomics I (3).
ECO 5115. Product Markets and the Theory of the Firm (3).
ECO 5116. Imperfect Competition, Factor Markets, and Income Distribution (3).
ECO 5117. Applied Microeconomics II (3).
ECO 5133. Markets and Auctions (3).
ECO 5134. Applied Market Design (3).
ECO 5204. Macroeconomic Theory I (3).
ECO 5206. Macroeconomic Theory, Practice, and Policy (3).
ECO 5207. Macroeconomic Theory II (3).
ECO 5281. Financial Economics I (3).
ECO 5282. Financial Economics II (3).
ECO 5295. Macroeconomic Theory III (3).
ECO 5305. History of Economic Thought (3).
ECO 5403. Static Optimization in Economics (3).
ECO 5405. Introduction to Mathematical Economics (3).
ECO 5408. Computational Economics I (3).
ECO 5416. Econometrics I (3).
ECO 5417. SAS Programming (3).
ECO 5420. Applied Econometrics (3).
ECO 5423. Econometrics II (3).
ECO 5424. Econometric Methods for Panel Data (3).
ECO 5427. Limited Dependent Variable Models (3).
ECO 5428. Time Series Analysis (3).
ECO 5434. Analysis of Economic Data (3).
ECO 5453. Advanced Experimental Economics (3).

ECO 5454. Empirical Methods in Applied Economics (3).
ECO 5457. Introduction to Research Methods in Economics (0). (S/U grade only.)
ECO 5505. Public Economics (3).
ECO 5506. Public Goods (3).
ECO 5533. Public Choice (3).
ECO 5706. Seminar in International Trade Theory and Policy (3).
ECO 5707. International Trade (3).
ECO 5715. International Finance (3).
ECO 5906r. Directed Individual Study (3). (S/U grade only.)
ECO 5907r. Directed Individual Study (3).
ECO 5914r. Supervised Research (1–5). (S/U grade only.)
ECO 5922r. Professional Development for Economists (0–2).
ECO 5936r. Special Topics (1–3).
ECO 5942. Applied Economics Internship (3). (S/U grade only.)
ECO 5973r. Applied Master's Project (3).
ECO 5973Lr. Economic Analysis: Solving and Communicating a Consulting Project (3). (S/U grade only.)
ECO 6176. Topics in Behavioral Economics (3).
ECO 6209. Topics in Macroeconomics (3).
ECO 6216. Monetary Theory and Policy (3).
ECO 6296. Open Economy Macroeconomics (3).
ECO 6936. Topics in Microeconomics (3).
ECO 6938r. Doctoral Workshop (0–3). (S/U grade only.)
ECO 6939r. Teaching Workshop (0–3). (S/U grade only.)
ECP 5115. Seminar in the Economics of Population (3).
ECP 5117. Mathematical Demography (3).
ECP 5118. Population Data (3).
ECP 5205. Labor Markets (3).
ECP 5405. Industrial Organization (3).
ECP 5415. Social Control of Business (3).
ECP 5456. Law and Economics (3).
ECP 5536. Economics of Health (3).
ECP 5537. Applied Health Economics (3).
ECP 5538. Health Policy Statistics (3).
ECP 5606. Urban and Regional Economics (3).
ECP 6105. Personnel Economics (3).
ECP 6209. Labor and Policy Analysis (3).
ECS 5015. Economic Development: Theory and Problems (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

EDUCATIONAL ADMINISTRATION/LEADERSHIP: see Educational Leadership and Policy Studies

Undergraduate Department of EDUCATIONAL LEADERSHIP AND POLICY STUDIES

College of Education

Website: *http://education.fsu.edu*
Chair: Motoko Akiba; **Professors:** Akiba, Herrington, Hu, Milligan, Schwartz; **Associate Professors:** Bertrand Jones, Cox, Guthrie, Iatarola, Khurshid, Mokher, Park, Perez-Felkner, Rutledge, Zuilkowski; **Assistant Professors:** Beatty, Preston; **Teaching Faculty:** Lorensen, Schrader, Watkins; **Research Associate:** Ramos; **Faculty Emeriti:** Beckham, Bender, Dalton, Easton, Funk, Irvin, Jahns, Kannwischer, Kunkel, Lick, Mann, Milton, Schroeder, Shargel, Stakenas, Thomas

The Department of Educational Leadership and Policy Studies offers graduate degree programs in Educational Leadership and Policy and Higher Education. At the graduate level, the department offers certificates in Institutional Research and Program Evaluation. Although the department does not offer undergraduate degree programs, it does offer an undergraduate certificate in Leadership Studies and several courses are offered at the undergraduate level for persons engaged in programs of professional education and teacher education. For information on graduate programs, consult the *Graduate Bulletin*.

Undergraduate Certificate in Leadership Studies

The Undergraduate Certificate in Leadership Studies is an eighteen credit hour undergraduate program that is interdisciplinary, multidimensional, experiential, and multicultural. Courses offered in this certificate program explore leadership theory, working in the context of groups and communities, changing leadership strategies, theory-to-practice through experiential learning, and the complexity of leadership. Award of this certificate is acknowledged on the recipient's academic transcript. For more information, visit *https://thecenter.fsu.edu/llrc/leadership-studies-certificate*.

Definition of Prefixes

ADE—Adult Education
CGS—Computer General Studies
ECT—Education: Career/Technical
EDA—Educational Administration
EDF—Education: Foundations and Policy Studies
EDG—Education: General
EDH—Education: Higher
EME—Education: Technology and Media
LDR—Leadership Studies
MHS—Mental Health Services
SDS—Student Development Services

Undergraduate Courses

ADE 4930r. Special Topics in Adult and Community Education (3). This course introduces varying topics related to the nature and methods of adult and community education. May be repeated for a maximum of twelve semester hours.

EDA 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

EDF 1005. Introduction to Education (3). This course offers students a broad view of education from historical, cultural, psychological, political, social, and philosophical perspectives. Includes lectures, discussions, and field experience.

EDF 2082. Introduction to International Development in Education (3). This course constitutes a basic overview of international development work in the education sector in societies of Asia, Africa, the Middle East, and Latin America. The course explores different approaches to international development and how these shape and influence educational improvement initiatives in countries of the Global South.

EDF 4906r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of twelve semester hours.

LDR 2101. Leadership Theory and Practice (3). This course is designed to inspire, teach, and engage students in the process of learning leadership. This course introduces students to leadership theory and helps them understand their unique role in leadership on campus, in their academic discipline, and within our larger society.

LDR 2116. Leadership in the Digital Age (3). This course focuses on addressing leadership in the 21st century in the face of emerging technology, social media communication platforms and global change. The course also introduces leadership online through the lens of positive social change. Using the social change model, students are challenged to take their activity to better their local and global communities.

LDR 2160. Peer Leadership (3). This course develops potential campus student leaders and improves overall peer leadership efficacy. This course also serves as an opportunity to provide all student leaders with direct training and preparation for campus leadership and mentoring roles.

LDR 2162. Leadership in Groups and Communities (3). This course is designed to inspire, teach, and engage students in the process of learning leadership within the context of working with groups and communities. This course helps students develop the skills necessary in order to be effective in the leadership process and to practice these skills within their community. The course is highly interactive, with student participation and outside class involvement as critical components to the learning process.

LDR 2163. Emerging Leaders (3). This course enables students to develop their intellectual, interpersonal, and social skills through their experiences as members in organizations. This course is designed to prepare students for leadership roles and challenges they face in their organizations, on campus, and in the community. The course is highly interactive with student participation and outside class involvement as critical components to the learning process.

LDR 2190. Emotionally Intelligent Leadership (3). This course is a theory-to-practice course focusing on the role of emotional intelligence (EI) in leadership knowledge, skills, and development. Students are introduced to Emotionally Intelligent Leadership (EIL) theory and consider the role of EI in the context of individual and team leadership development.

LDR 2210. Leadership Through Intergroup Dialogue (3). This course enables students to explore different aspects of their identities in reference to power and privilege, and how that influences leadership.

LDR 2213. Leadership for Social Justice (3). This course introduces students to theoretical frameworks in the field of social justice. Through these theories, the notions of privilege, oppression, power, and difference are explored. Attention is given to specific social justice issues related to gender, sexual orientation, race, religion, ability, age, and class. Students examine social justice in the context of leadership and come to understand their unique role in creating social change on campus, in their academic discipline, and within our larger society.

LDR 2218. Leadership and Well-Being (3). This course is an interactive, dynamic, theory-to-practice course focusing on leadership and well-being theory; acquiring leadership knowledge, skills, and values; attaining personal and community health knowledge, skills, and values; and integrating leadership and wellness values to understand community and civic health concepts.

LDR 2231. Global Leadership (3). This course helps students develop the skills necessary to interact globally whether at home or abroad. It leads students to develop a sense of curiosity for diverse cultures and understanding the various behaviors, attitudes, and emotions which are found globally and impact our daily lives. The knowledge gained about global leadership allows students to recognize and respect cultural differences and be able to maneuver situations more accurately as well as gain insight and understanding of recent world leaders.

LDR 2241. Black Male Leadership (3). This course introduces the study of leadership and leadership efficacy as it relates to Black males, using text and outside readings, activities, and a variety of assignments. Students in this course are introduced to and discuss some of the social, psychological, and cognitive realities of Black males in America.

LDR 2242. Gender and Leadership (3). This course is an exploration of the intersections of the complex social construct of gender and the intricacies of enacting leadership. This course considers the experiences of women, trans, genderqueer, and men leaders as well as concepts of gender expression and the intersectionality of identities as influencers on leadership access and practice.

LDR 2243. Latinx Leadership Development (3). This course is a theory-to-practice, interactive and identity-based leadership course discussing and analyzing components of Latinx Leadership Development. This course explores the historical and cultural aspects of Latinx culture and how it intertwines with leadership development, learning, and practice.

LDR 2290. Leadership and Sustainability in Action (3). This course is designed to introduce students to the concept of leadership and action related to sustainability. It looks at the interconnectedness and complexity of the three pillars of sustainability (environment, economic, and social) as well as discusses the development of the leadership skills needed to create social change. In conjunction with class discussions and readings, students develop a personal sustainability plan to help align passion and values into active practice.

LDR 2560. Leadership in Film (3). This course initiates a thoughtful consideration of the nature of leadership as depicted in film. Film provides unique insights to investigate character and motive, as well as culture, allowing us to access meaning and significance through theoretical, analytical, and dialogic inquiry.

LDR 3215. Leadership and Change (3). This advanced undergraduate leadership course examines the change process and prepares leaders who are effective in working with individuals, groups, and organizations in leading and managing change. This is an interactive theory-to-practice course, focused on leadership as a change process.

LDR 3263. Leadership Experience (3). Prerequisites: LDR 2101, LDR 2162, and LDR 3215 or instructor permission. This experiential-based course offers participants an opportunity to put into practice the knowledge, theory, and skills they have learned in previous courses in the Certification program. Students select and create an experience, complete an experiential learning contract for the course, and do extensive reflection on their experience throughout the course.

LDR 4105. Leadership and Complexity (3). This final course in the Certificate in Leadership Studies builds upon the leadership literature, theory and experience foundation created in the previous certificate courses. This course provides opportunities for analysis of student's experiential opportunity, advanced theory to practice work, and development of personal leadership theory and integrated learning plan.

LDR 4404. Student Affairs Leadership (3). This course offers practical information and activities designed to familiarize students with theories, organizational structures, and issues/trends/challenges of the student affairs profession. It is designed to provide students an opportunity to gain knowledge in the theory and practical application of student affairs, with an emphasis placed on leadership development, problem solving, and career exploration.

MHS 4001. The Human Services Profession (3). This course is an exploration of the nature of human service work. Analyzes past, present, and future issues in human service work. Topics include: human service professions and systems approaches; personal, career, and family development; the delivery of human services; and program development and evaluation, with a special emphasis upon the rehabilitation process.

Graduate Courses

CGS 5310. Technology in Schools for Education Leaders (3).
EDA 5069. Ethics in Educational Leadership (3).
EDA 5107. Educational Leadership and Change (3).
EDA 5191. Leadership for Diversity (3).
EDA 5192. Educational Leadership (3).
EDA 5219. Resource Management for Educational Leaders (3).
EDA 5231. Applications of Policy (3).
EDA 5232. Legal Aspects of Public School Administration (3).
EDA 5242. School Finance (3).
EDA 5288. The Politics of Education (3).
EDA 5423. Data Driven School Improvement (3).
EDA 5501. The Assistant Principal (3).
EDA 5503. The Principalship (3).
EDA 5504. Instructional Leadership (3).
EDA 5507. Planning Effective Instruction (3).
EDA 5508. Teacher Leadership Development (3).
EDA 5569. State Education Policy (3).
EDA 5906r. Directed Individual Study (1–3). (S/U grade only.)
EDA 5931r. Special Topics in Educational Administration (1–3).
EDA 5941r. Supervised Teaching (1–4). (S/U grade only.)
EDA 5942. Practical Experiences in Educational Leadership (3).
EDA 5945. Practicum in Educational Leadership I (1).
EDA 6061. Educational Administration and Organizational Practice (3).
EDA 6101. Organizational Theory (3).
EDA 6102. Perspectives on Leadership Theory (3).
EDA 6105. Laboratory of Practice I (3).
EDA 6108. Laboratory of Practice II (3).
EDA 6207. Leadership for School Renewal (3).
EDA 6425. Literature Review for Educational Research (3).
EDA 6930r. Seminar in Literature, Research, and Professional Writing (1–3).
EDF 5089. Black and Latino Education: History and Policy (3).
EDF 5414. Introduction to Large Data Sets (3).
EDF 5449. Survey Research Methods (3).
EDF 5461. Introduction to Program Evaluation (3).
EDF 5462. Evaluation of New Educational Programs and Practices (3).
EDF 5464. Qualitative Research and Evaluation Methods (3).
EDF 5481. Methods in Educational Research (3).
EDF 5517. History of Education in the United States (3).
EDF 5519. History of Higher Education (3).
EDF 5543. Introduction to Philosophy of Education (3).
EDF 5548. Philosophy of Teaching and Learning (3).
EDF 5551. Social Philosophies and Education (3).
EDF 5612. Anthropology of Education (3).
EDF 5624. Economics of Education (3).
EDF 5625. Education and Economic Development (3).
EDF 5626. Economic Evaluation of Education Programs (3).
EDF 5630. Sociology of Education (3).
EDF 5641. Introduction to Policy Studies in Education (3).
EDF 5649C. Applied Education Policy Analysis (3).

EDF 5652. Policy Development in Education (3).
EDF 5656. Design and Management of International Development and Education Projects (3).
EDF 5706. Gender and Education in Comparative Perspective (3).
EDF 5743. Foundations of Education (3).
EDF 5850. International Development Education (3).
EDF 5853. Comparative Education (3).
EDF 5887. Multicultural Education (3).
EDF 5890. Sociology of Nontraditional Approaches and Innovation in Education and Development (3).
EDF 5907r. Directed Individual Study (1–3). (S/U grade only.)
EDF 5911r. Supervised Research (1–4). (S/U grade only.)
EDF 5935r. Special Topics in Foundations of Education (1–3).
EDF 5941. Institutional Research Practicum (1–8).
EDF 6471. Quasi-Experimental Data Analysis (3).
EDF 6474. Foundations of Practice Models (3).
EDF 6475. Qualitative Methods in Educational Research (3).
EDF 6476. Advanced Qualitative Research Seminar (3).
EDF 6479. Qualitative Data Analysis (3).
EDF 6480. Applied Quantitative Methods for Educational Practitioners (3).
EDF 6485. Professional Learning for Educational Practitioners I (3).
EDF 6486. Applied Research Methods in Educational Leadership and Policy (3).
EDF 6493. Professional Learning for Educational Practitioners II (3).
EDF 6547. Philosophical Foundations of Education Research (3).
EDF 6558. Seminar on John Dewey's Educational Philosophy (3).
EDF 6576. Policy to Practice: District, School, and Classroom Policy Implementation (3).
EDF 6629r. Advanced Seminar: Selected Topics in Education and Economic Development (3).
EDF 6648. Policy Analysis in Education (3).
EDF 6666. Teacher Policy and Reform (3).
EDF 6945r. Internship in Educational Policy (1–9). (S/U grade only.)
EDF 6960. Diagnostic Examination (0). (P/F grade only.)
EDG 5250. Curriculum and Instruction for School Leaders (3).
EDH 5005. Sociology of Higher Education (3).
EDH 5041. International Interventions (3).
EDH 5042. Student Success in College (3).
EDH 5045. Student Development Theories for College Student Personnel Work (3).
EDH 5046. Diversity in Higher Education (3).
EDH 5051. Higher Education in America: Basic Understandings (3).
EDH 5054. The American Community College: History and Development (3).
EDH 5055. Introduction to Institutional Research (3).
EDH 5068. Outcomes of Undergraduate Education (3).
EDH 5078. Outcomes Assessment in Higher Education I: Study Design (3).
EDH 5079. Outcomes Assessment in Higher Education II: Analysis & Dissemination (3).
EDH 5095. Strategic Planning and Performance Improvement in Higher Education (3).
EDH 5305. College Teaching: Instruction in Higher Education (3).
EDH 5362. Leadership Teaching and Learning in Higher Education (3).
EDH 5405. Legal Aspects of Higher Education (3).
EDH 5406. Ethical Leadership in Higher Education (3).
EDH 5504. College and University Institutional Advancement (3).
EDH 5506. College and University Business Administration (3).
EDH 5507. College and University Budgeting (3).
EDH 5630. Capstone in Higher Education (3).
EDH 5632. College and University Presidency (3).
EDH 5639. Strategic Management in Higher Education (3).
EDH 5645. Data Driven Decision Making for Institutional Researchers (3).
EDH 5646. Data Mining (3).
EDH 5647. Data Analysis for Institutional Research (3).
EDH 5664. Politics of Higher Education (3).
EDH 5906r. Directed Individual Study (1–3). (S/U grade only.)
EDH 5915r. Supervised Research (1–4). (S/U grade only.)
EDH 5931r. Special Topics in Higher Education (1–3).
EDH 5941r. Field Laboratory Internship (1–8).
EDH 5942r. Internship (1–8). (S/U grade only.)
EDH 5943r. Supervised Teaching (1–4). (S/U grade only.)
EDH 5944r. Internship (1–8). (S/U grade only.)
EDH 5946. Internship in College and Community College Teaching (3).
EDH 6040. Research on College Students (3).
EDH 6059r. Proseminar in Higher Education and Education Policy (0). (S/U grade only.)
EDH 6064. Women in Higher Education: A Historical Perspective (3).
EDH 6067. International Perspectives in Higher Education (3).
EDH 6081. Leadership and Change in Higher Education (3).
EDH 6085. Social Justice in Higher Education (3).
EDH 6401. Public Policy in Higher Education (3).
EDH 6505. Finance in Higher Education (3).
EDH 6635. Organization and Governance of Higher Education (3).
EDH 6935r. Seminar: Literature, Research, and Professional Writing in Higher Education (3). (S/U grade only.)
EDH 6936. Seminar in Student Development Theories (3).
MHS 6938r. Special Topics in Counseling Psychology (3).
SDS 5040. Student Personnel Work in Higher Education (3).
SDS 5624. The American College Student (3).
SDS 5804. Practicum in Student Personnel Work (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of EDUCATIONAL PSYCHOLOGY AND LEARNING SYSTEMS

College of Education

Website: *http://education.fsu.edu*

Chair: James Klein; **Professors:** Becker, Dennen, Driscoll, Ebener, Eklund, Ke, Klein, Phillips, Shute, Yang; **Associate Professors:** Almond, Dong, Eccles, Hines, Jeong, Osborn, Paek, Roehrig, Swanbrow Becker, Turner; **Assistant Professors:** Chow, Gabana, Jenkins, Krach, Marks, Yoon, Zhang; **Teaching Faculty:** Dozier, Hyatt, May, Thompson; **Professors Emeriti:** Branson, Briggs, Burkman, Driscoll, Gagne, Kaufman, Keller, Kelly, Morgan, Oosterhof, Pargman, Peterson, Pfeiffer, Prevatt, Reardon, Reiser, Sampson, Tate, Tenenbaum, Wager

The Department of Educational Psychology and Learning Systems offers degrees only at the master's, specialist, and doctoral levels. However, the department does offer several undergraduate courses that are components of the teacher education curriculum. For more information about the department, refer to the *Graduate Bulletin*.

The following graduate-level programs and certificates are offered by the Department of Educational Psychology and Learning Systems:

- Counseling and Human Systems
  - Career Counseling M/S
  - Mental Health Counseling M/S
  - School Psychology M/S
- Counseling Psychology and Human Systems
  - Combined Program in Counseling Psychology and School Psychology D
- Educational Psychology
  - Learning and Cognition M, S, D
  - Sports Psychology M, D
- Instructional Systems and Learning Technologies
  - Instructional Systems and Learning Technologies M, S, D
  - Learning Design and Performance Technology D
- Measurement and Statistics M, S, D
- Certificate in Human Performance Technology
- Certificate in Measurement and Statistics
- Certificate in Online Instructional Development
- Certificate in Online Teaching and Learning

Definition of Prefixes

ADE—Adult Education
APK—Applied Kinesiology
DEP—Developmental Psychology
EDF—Education: Foundations and Policy Studies
EDG—Education: General
EDP—Educational Psychology
EGI—Education: Gifted
EME—Education: Technology and Media
IDH—Interdisciplinary Honors
MHS—Mental Health Services
PCO—Psychology for Counseling
PET—Physical Education Theory
PSB—Psychobiology
RCS—Rehabilitation Counseling Services
SDS—Student Development Services
SLS—Student Life Skills (Learning)
SOW—Social Work
SPS—School Psychology
SYP—Social Processes

Undergraduate Courses

APK 4400. Sport Psychology (3). This course explores selected psychological theories and applications relevant to sport and exercise behavior.

APK 4401. Introduction to Exercise Psychology (3). This course is designed for students interested in the psychosocial issues related to exercise behaviors. The course introduces both the theories and practices inherent in the field of exercise psychology. In addition, this course covers intervention strategies to promote exercise behaviors and long-term adherence to a physically active lifestyle.

APK 4402. Applied Sport Psychology (3). Prerequisite: APK 4400. This course examines current research and practice in applied sport psychology settings (e.g., athletes, coaches, athletic trainers), and the application of these concepts. The approach taken in the course is a scientist-practitioner approach; the course relies on the "science of practice." The primary goal is to acquire the skills of a proficient and skilled practitioner, athlete, or coach that relies on a sound conceptual-theoretical foundation.

APK 4403. Performance Psychology (3). This course is designed for students interested in the psychosocial issues related to performance (e.g., music, dance, military, etc.). The course introduces both the theories and practices inherent in the field of performance psychology. In addition, it covers intervention strategies used in order to combat several mental performance issues.

EDF 4210. Educational Psychology: Developing Learners (3). This course is designed to introduce students to concepts of human development, learning, and motivation as foundations for the planning and implementation of classroom instruction. Students are expected to acquire and use theoretical knowledge to inform decisions about strategies for helping learners develop, learn, and achieve.

EDF 4423. Methods of Educational Research (3). This course surveys selected types of educational research and appropriate related techniques, with an emphasis on criteria of validity.

EDF 4430. Classroom Assessment (3). This course prepares prospective teachers for activities related to assessing students, including establishing validity evidence, enhancing generalization of observations, using traditional and alternative assessment strategies, interpreting and using data to improve achievement, and utilizing assessment in the process of learning.

EDF 4423. Methods of Educational Research (3). This course surveys selected types of educational research and appropriate related techniques, with an emphasis on criteria of validity.

EDF 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

EME 2040. Introduction to Educational Technology (3). This course is an introduction to the use of educational technology in teaching and learning. Students learn to use personal computers and other technology for communication, presentations, and resource acquisition.

EME 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of twelve semester hours.

IDH 3702. Becoming and Being Leaders: Motivating Self and Others (3). This course examines theories and research that focus on aspects of self-motivation as well as motivating groups. The course covers topics in the domains of educational psychology, leadership studies, sport psychology, counseling psychology, and social psychology. Students come to understand underlying mechanisms of becoming, and being, leaders within their domains.

MHS 4003. Introduction to the Psychology of the Gifted (3). Prerequisites: Senior standing and 3.0 GPA in major. This course examines current issues in intelligence, creativity, talent development, and giftedness. Course topics include theories of intelligence, the four P's of creativity, conceptions of giftedness, and why certain groups of students are underrepresented in gifted programs.

MHS 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

SDS 3340r. Introduction to Career Development (1–3). This course focuses on the principles and practices of career planning and management, including use of self-assessment, career resources, and employability skill guides. May be repeated to a maximum of three semester hours.

SDS 3802r. Experiential Learning (0). (S/U grade only.) This course focuses on engaging students to "try on" a professional environment through an experiential learning opportunity. Experiential learning occurs through a variety of activities including: internships, field work, service learning, projects, undergraduate research, fellowship, leadership, clinical experience, co-op, and practicum. Experiential learning assists students in identifying and strengthening skills needed to succeed in their intended career field. The course also focuses on how student's experiences can put theory into practice within their intended post-baccalaureate work settings. Through goal-setting, reflection and self-evaluation, this course facilitates professional growth.

SDS 4481. Communication and Human Relations (3). This course focuses on the relevant dimensions of the helping relationship and the development of effective communications skills.

SLS 1004. Academic Success in STEM (1). This course facilitates academic success and promotes retention in STEM. The course focuses on the development and application of study skills, career plans, scholastic expectations, and connections to peers, faculty, and opportunities at a research university.

SLS 1122. Strategies for Academic Success (1). This course offers a positive intervention to facilitate academic success and to promote retention for first-time-in-college students who are in academic difficulty after their first term of full-time enrollment at Florida State University. Focus is on the development of study skills required for college-level work as well as on the identification and minimization of barriers that impede individual student achievement.

SLS 1203. Introduction to Exploration for Academic Majors (1). This course invites students in the exploratory major to examine or evaluate major and career opportunities through analysis of their values, interest, and skills. Students explore the three fundamental components of Florida State University's exploratory program: Self Exploration, Major Exploration, and Career Exploration. Students apply thoughtful introspection, critical reasoning, disciplined thinking, and objective analysis as they research majors and ask questions that promote disciplined thinking that ultimately results in selecting a major confidently.

SLS 1261. Student Development & Leadership Strategies (1). (S/U grade only.) This course explores the tools to cultivate meaningful relationships, enhance character development, and ensure students are meeting their full potential. The course will focus on character development, leadership, time management/social pressures, social responsibility, and financial literacy.

SLS 1511r. Special Topics in Student Life Skills (1). This special topics course assists students with transition to college, including success in a major, developing career plans, and honing essential skills. The course emphasizes connections to peers, faculty, and opportunities that prepare students for the future.

SLS 2206. Chart Your Course: Living the Creed (1). This course invites students who are new to FSU's Campus to embody the principles found in the Seminole Creed: Truthfulness, Respect, Excellence, Freedom of Speech and Inquiry, Diversity, Justice, Citizenship, and Discovery. Students apply critical thinking skills as evidenced by information literacy and problem solving skills, as they research and enact a plan for professional and personal success.

SLS 3140. Academic Success for Transfer Students (1). This course helps transfer students improve their academic outcomes. The course focuses on development and application of skills necessary for navigating the increased scholastic expectations of a large research university.

SLS 3407. Strategies for Veteran Success (0–1). (S/U grade only.) This course is designed as a proactive measure to facilitate the transition from military service to college with the ultimate goal of promoting student veteran retention, graduation, and job placement. The purpose of the course is to facilitate development of study and life management skills that are critical to success in an environment that is structured to encourage personal connections with fellow student veterans as well as campus resources.

SLS 3717r. Peer Learning Assistance (0–1). This course is a learning opportunity for students interested in exposure to issues regarding targeted peer learning assistance. This course provides training in various areas related to peer learning assistance and is applicable across disciplines.

Graduate Courses

ADE 5189. Staff Training and Development (3).
APK 5404. Sport Psychology (3).
APK 6412. Sport and Exercise Psychology Ethics (3).
DEP 5068. Life-Span Human Development (3).
DEP 5070. Child and Adolescent Development (3).
EDF 5300. Motivation and Emotion (3).
EDF 5400. Basic Descriptive and Inferential Statistics Applications (4).
EDF 5401. General Linear Model Applications (4).
EDF 5402. Advanced Topics in Analysis of Variance Applications (3).
EDF 5404. Bayesian Data Analysis (3).
EDF 5406. Multivariate Analysis Applications (3).
EDF 5409. Causal Modeling (3).
EDF 5431. Classroom Assessment (3).
EDF 5432. Measurement Theory I (3).
EDF 5434. Measurement Theory II (3).
EDF 5435. Theory of Scaling (2).
EDF 5442. Inquiry and Measurement for Practitioners (3).
EDF 5448. Scale and Instrument Development (3).
EDF 5462. Evaluation of New Educational Programs and Practices (3).
EDF 5481. Methods of Educational Research (3).
EDF 5484. Educational Data Analysis (3).
EDF 5489. Applied Research Methods in Learning Design and Performance Technology (3).
EDF 5681. Urban and Rural Schools (3).
EDF 5906r. Directed Individual Study (1–3). (S/U grade only.)
EDF 5910r. Supervised Research (1–9). (S/U grade only.)
EDF 5916. Research Proposal Writing (1).
EDF 5940r. Supervised Teaching (1–4). (S/U grade only.)
EDF 5942r. Field Laboratory Internship (1–8). (S/U grade only.)
EDF 5992r. Educational Psychology Colloquium (0-1). (S/U grade only.)
EDF 6057. Large-Scale Assessment (3).
EDF 6482. Experimental and Quasi-Experimental Research Design (3).
EDF 6499. Discourse and Conversation Analysis (3).
EDF 6576. Policy to Practice: District, School, and Classroom Policy Implementation (3).
EDF 6683. Family Support for Learning (3).
EDF 6755. Theoretical and Practical Issues in Education (3).
EDF 6912r. Preliminary Research (1–3). (S/U grade only.)
EDF 6937r. Seminar in Advanced Research Problems (1–3).
EDF 7418. Multilevel Modeling (3).
EDF 7489. Meta-analysis (3).
EDG 6328. Alternate Views of Teaching and Learning (3).
EDG 6362. Instructional Systems Research Seminar (3).
EDG 6363. Practicum in Experimental Learning Research (3).
EDP 5216. Theories of Learning and Cognition in Instruction (3).
EDP 5217. Principles of Learner Motivation (3).
EDP 5275. Development of Children in School (3).
EDP 5285. Group Processes in Instruction (3).
EDP 5935. Topics in Educational Psychology (3).
EME 5077. Mobile Learning (3).
EME 5078. Design of Online & Digital Adaptive Learning (3).
EME 5250. Open Learning and Open Educational Resources (3).
EME 5405. Media, Text, and Technology (3).
EME 5456. Online Pedagogy and Design (3).
EME 5457. Introduction to Distance Learning (3).
EME 5601. Introduction to Instructional Systems (3).
EME 5603. Introduction to Systematic Instructional Design (3).
EME 5606. Technology and Design (3).
EME 5608. Trends and Issues in Instructional Design (3).
EME 5614. Design of Learning Games (3).
EME 5906r. Directed Individual Study (1–3). (S/U grade only.)
EME 6064. Application of Research Methods in Learning Design & Performance Technology (3).
EME 6356. Learning and Web Analytics (3).
EME 6357. Evaluation of Training in HPT (3).
EME 6403. Designing for Online Collaborative Learning (3).
EME 6414. Web 2.0-Based Learning and Performance (3).
EME 6415. Development of Computer Courseware (3).
EME 6476. Internet Based Inquiry (3).
EME 6507. Development of Multimedia Instruction (3).
EME 6616. Case Studies in Instructional Systems (2).
EME 6631. Managing Instructional Development (3).
EME 6632. Instructional Systems Inquiry Project Design and Management (1).
EME 6635r. Seminar in Advanced Instructional Systems Problems (1–3).
EME 6636. A System Approach to the Management of Change (3).
EME 6665. Synthesis, Analysis, and Argumentation in Instructional Systems Research (3).
EME 6677. Advanced Instructional Design and Development (3).
EME 6691. Performance Systems Analysis (3).
EME 6694. Academic Publishing in Instructional Systems and Learning Design (3).
EME 6920r. Learning Design and Performance Technology Colloquium (1). (S/U grade only).
MHS 5007. Foundations of Mental Health Counseling (3).
MHS 5010. Foundations of School Counseling (3).
MHS 5060. Psychological and Multicultural Aspects of Counseling (3).
MHS 5340. Foundations of Career Development (3).
MHS 5341. Career Development Program Design and Evaluation (3).
MHS 5400. Introduction to Counseling Theories and Techniques (4).
MHS 5435. Theories and Fundamentals of Family Therapy (3).
MHS 5496. Current Issues in the Psychology of the Gifted (3).
MHS 5511. Group Counseling: Theory and Practice (3).
MHS 5801r. Practicum in Counseling and Rehabilitation (4).
MHS 5860r. Supervised Teaching (1–4). (S/U grade only.)
MHS 5905r. Directed Individual Study (1–3). (S/U grade only.)

MHS 5915r. Supervised Research (1–4). (S/U grade only.)
MHS 6220r. Individual Appraisal in Counseling (3).
MHS 6300. Theories of Vocational Behavior (3).
MHS 6401. Evidence-Based Counseling/Psychotherapy (3).
MHS 6410. Behavior Management: Principles and Applications (3).
MHS 6450. Substance Abuse and Addictions Counseling (3).
MHS 6466. Trauma & Crisis intervention (3).
MHS 6600. Consultation and Organizational Development (3).
MHS 6610. Supervision (3).
MHS 6630. Program Development and Evaluation in Counseling (3).
MHS 6715. Design and Critical Review of Research in Counseling (3).
MHS 6720. Introduction to Health Services Psychology Profession (3).
MHS 6721. Professional Development Seminar in Advocacy and Ethics for Health Services Psychology (3).
MHS 6803. Seminar in Ethics, Law, and Clinical Supervision (3).
MHS 6805r. Advanced Group or Individual Counseling Practicum (1–4).
MHS 6820r. Counseling Internship (3–6). (S/U grade only.)
MHS 6930. Diversity Seminar in Health Service Psychology (3).
MHS 6938r. Special Topics in Counseling Psychology (3).
MHS 6946r. Field Practicum in Counseling Psychology (2–6). (S/U grade only.)
PCO 5095. Computer Applications in Counseling Psychology and Other Human Services (3).
PET 5054C. Motor Skill Learning (3).
PET 5216. Applied Sport Psychology (3).
PET 5222. Cognitive Processes in Sport Psychology (3).
PET 5255. Social Bases of Physical Activity (3).
PET 5390. Measurement in Sport and Exercise Psychology (3).
PET 5769. Theory and Practice of Athletic Coaching (3).
PET 5940r. Athletic Coaching Internship (1-3).
PET 6087. Exercise Effect on Health and Quality of Life (3).
PET 6217. Stress and Motor Performance (3).
PET 6224. Exercise Effect on Cognitive Processes and Brain Functioning (3).
PSB 5066. Biological Bases of Learning and Behavior (3).
RCS 5080. Medical Aspects of Disability (3).
RCS 5250. Assessment in Counseling and Rehabilitation (3).
SDS 5820r. Internship (4–12). (S/U grade only.)
SOW 5153. Human Sexuality (3).
SPS 5055. Foundations of School Psychology (3).
SPS 5105. Social-Emotional Disorders of Children and Adolescents: Characteristics and Assessment (3).
SPS 5176. Psychoeducational Issues for ELL & Diverse Learners (3).
SPS 5191. Assessment of Intelligence (4).
SPS 5192. Psychoeducational Assessment and Intervention (4).
SPS 5193. The Assessment of Social-Emotional Problems in Children and Adolescents (3).
SPS 5205. Consultation in the Schools (3).
SPS 5207. Advanced School-Based Consultation (3).
SPS 5615. Counseling Children and Adolescents (3).
SPS 5945r. Practicum in School Psychology (3–6). (S/U grade only.)
SPS 6948r. Internship in School Psychology (3–6). (S/U grade only.)
SYP 5105. Theories of Social Psychology (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of ELECTRICAL AND COMPUTER ENGINEERING

FAMU–FSU College of Engineering

Website: *https://www.eng.famu.fsu.edu/ece/*
Chair: Sastry Pamidi; **Associate Chair for Undergraduate Programs:** Bruce A. Harvey; **Associate Chair for Graduate Programs:** M. Omar Faruque; **Professors:** Andrei, Arora, L. DeBrunner, V. DeBrunner, Foo, H. Li, Meyer-Baese, Pamidi, Peng, Perry, Roberts, Weatherspoon, Yu; **Associate Professors:** Bernadin, Faruque, Harvey, Kwan; **Assistant Professors:** Anubi, Konstantinou, Y. Li, Moon; **Teaching Faculty I:** Chuy, Hadi, Islam; **Teaching Faculty II:** Hooker; **Teaching Faculty III:** Brooks; **Research Professor**: Lipo; **Courtesy Professors**: McGinnis, Steurer

Bachelor of Science in Electrical Engineering–Program Educational Objectives

Our BS in Electrical Engineering graduates will:

1. Have successful careers in the field of electrical engineering making important contributions in the technical areas of digital systems, digital signal processing, control systems, electronics, power systems, or electromagnetics.
2. Be enrolled in or have completed a graduate program or have shown a commitment to life-long learning and continuous self-improvement.
3. Maintain high ethical standards and will have participated in the research, development, or application of engineering solutions that make a positive impact on industry and society.
4. Make contributions to workforce diversity while functioning in local and global multicultural and multidisciplinary environments.

Bachelor of Science in Computer Engineering–Program Educational Objectives

Our BS in Computer Engineering Graduates will:

1. Have successful careers in the field of computer engineering making important contributions in the technical areas of embedded systems, digital systems, digital signal processing, or computer networks.
2. Be enrolled in or have completed a graduate program or have shown a commitment to life-long learning and continuous self-improvement.
3. Maintain high ethical standards and will have participated in the research, development, or application of engineering solutions that make a positive impact on industry and society.
4. Make contributions to workforce diversity while functioning in local and global multicultural and multidisciplinary environments.

Program Review

The departmental faculty has established a process to periodically review and revise its two programs' educational objectives after obtaining feedback from its primary constituent groups. The faculty also is committed to teaching professional and ethical responsibility by example and by practice. The active sponsored research activities of the faculty ensure the program curricula remain contemporary and motivate the need for life-long learning.

Technical Electives

Technical electives provide the student an opportunity to achieve a greater breadth of knowledge and some degree of specialization in selected areas of special interest. Electives are offered in both electrical engineering and computer engineering application areas.

Electives are offered in the following **electrical engineering** application areas:

1. **Microelectronics** deals with all aspects of solid-state electronic devices, the analysis and design of analog and digital circuits, their implementation and fabrication using microelectronic techniques, and their application in a wide variety of systems
2. **Digital signal processing and control systems** concentrate on the design and analysis of systems in which discrete and continuous signals are used for conveying information and controlling physical systems and processes. Included are the encoding, decoding, and representation of information in both the time and frequency domain.
3. **Communications** is concerned with the preparation, transmission, and reception of encoded information via media ranging from wires to fiber

optic cables and space. Included are topics such as AM, FM, and pulse modulation techniques; telecommunication systems; satellite telemetry; and wireless and computer networks.

4. **Electromagnetics** in the broadest sense is the study of the relationship between electric current, electric and magnetic fields, and their interactions. It is the foundation of electrical and electronic technology. The practical applications of this theory include the design of antennas, transmission lines, RF, microwave and optical transmission facilities, and radar.
5. **Power systems engineering** is concerned with the design and operation of electric power generation, transmission, and distribution for an increasing customer demand. It involves the modeling, analysis, and design of power system components including power transformers, electric motors, synchronous generators, and high voltage power transmission and distribution networks. Power system engineering also includes the investigation of alternative methods for generating electrical energy, the control and reliability of complex power networks, power quality, economic factors, and environmental effects.

Electives are offered in following computer engineering application areas:

6. **Digital hardware design** includes the design of specialized hardware that comprise digital systems, such as those required for facial recognition, microprocessor design, or digital communication.
7. **Embedded computer system design** focuses on the design of resource-limited (e.g., price, power dissipation, memory or storage) microprocessor-based systems which do not have the typical components of a computer like keyboard, monitor, or mouse.
8. **Cybersecurity** is concerned with the protection of information — stored and processed by computer-based systems — that is vulnerable to unintended exposure and misuse. Cyber-physical systems security concentrates on the secure design and analysis of systems in which independently interacting information, communication, and control components operate on different spatial and temporal scales. Examples include smart grid, autonomous automobile systems, medical monitoring, and industrial control systems.
9. **Computer Networks** includes the design and implementation of networks that allow the communication between computers and other digital systems including topics such as Internet of Things (IoT), Ad Hoc networks, smart grid communications, security, wireless sensor networks (WSN), and cyber physical systems.
10. **Digital signal and image processing** concerns the design and implementation of systems that are used to extract information found in noisy signals and measurements of many dimensions, and their use in enhancement (filtering), synthesis (computer generated audio and video) and analysis (computer recognition).

Honors in the Major

The Department of Electrical and Computer Engineering offers a program of honors in electrical engineering to encourage talented students to extend their undergraduate experience by participating in directed or independent research on a topic relative to electrical engineering that is not included in the regular curriculum. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in electrical and computer engineering satisfy this requirement by earning a grade of "C–" or higher in EEL 3705L.

Coordination with Liberal Studies Requirements

In addition to satisfying the undergraduate computer skill competency, several courses required for undergraduate majors in electrical and computer engineering also satisfy some of the FSU Liberal Studies Requirements. Undergraduate majors in electrical and computer engineering will satisfy these requirements by earning a grade of "C" or higher in the following courses listed.

FSU Liberal Studies Requirement	Required Electrical or Computer Engineering Course
Scholarship in Practice	EEL 4911C - Senior Design Project I
Formative Experience	EEL 4914C - Computer Engineering Senior Design Project II OR EEL 4915C - Electrical Engineering Senior Design Project II
Upper Division Writing	EEL 3927 - Engineering Design Concepts
Oral Communication Competency	EEL 4911C - Senior Design Project I

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Computer Engineering

1. MAP X302
2. MAC X311 or MAC X281
3. MAC X312 or MAC X282
4. MAC X313 or MAC X283
5. CHM X045/X045L or CHM X045C or CHS X440
6. PHY X048/X048L or PHY X048C
7. PHY X049/X049L or PHY X049C
8. COP XXXX [an introductory programming course in C, C++, Java, or an equivalent high-level programming language; COP 3014 at FSU]

Electrical Engineering

1. MAC X311 or MAC X281
2. MAC X312 or MAC X282
3. MAC X313 or MAC X283
4. MAP X302 or MAP X305
5. CHM X045/X045L or CHM X045C, or CHS X440/X440L, or CHS X440 only, if for four credit hours and includes a lab
6. PHY X048/X048L or PHY X048C, or PHY X043 and PHY X048L, or PHYX041 and PHYX048L
7. PHY X049/X049L or PHY X049C, or PHY X044 and PHY X049L, or PHYX042 and PHYX049L

Common Required Courses for Bachelor of Science Degrees

All candidates for Bachelor of Science in Electrical Engineering (BSEE) and Bachelor of Science in Computer Engineering (BSCpE) are required to complete a total of seventy-six semester hours of common required courses, of which twenty-one hours are English, social science, and humanities courses; thirty-seven hours are engineering core courses (listed below); and twenty-two hours are common electrical and computer engineering courses (listed below).

Engineering Core Courses

COP 3014 Programming I (3)
MAC 2311 Calculus with Analytical Geometry I (4)
MAC 2312 Calculus with Analytical Geometry II (4)
MAC 2313 Calculus with Analytical Geometry III (5)
MAP 2302 Ordinary Differential Equations (3)
MAS 3105 Applied Linear Algebra I (4)
PHY 2048C General Physics A (5)
PHY 2049C General Physics B (5)

Common Required Electrical and Computer Engineering Courses

EEL 3002L ECE Engineering Tools Lab (2)

EEL 3135 Signal and Linear Systems Analysis (3)
EEL 3705 Digital Logic Design (3)
EEL 3705L Digital Logic Laboratory (1)
EEL 3927 Engineering Design Concepts (3)
EEL 4021 Statistical Topics in Electrical Engineering (3)
EEL 4746 Microprocessor-Based System Design (3)
EEL 4746L Microprocessor-Based System Design Laboratory (1)
EEL 4911C Senior Design Project I (3)

Requirements for a Major in Electrical Engineering

Students majoring in electrical engineering require one hundred twenty-eight semester hours to graduate including:

- Seventy-six hours of common required courses (listed above),
- Thirty semester hours of additional required courses for the electrical engineering majors (listed below)
- Twelve semester hours of required Tier-2 electrical engineering courses (listed below), and
- Ten semester hours are technical elective courses.

The additional required courses for the electrical engineering majors are:

CHM 1045/L General Chemistry I & Lab (3/1)
EEE 3300 Electronics (3)
EEE 3300L Electronics Laboratory (1)
EEL 3111 Introductory Circuit Analysis (3)
EEL 3112 Advanced Circuits with Computers (3)
EEL 3112L Advanced Circuits with Computers Laboratory (1)
EEL 3472 Electromagnetic Fields I (3)
EEL 4515 Digital Communication Systems (3)
EEL 4915C Electrical Engineering Senior Design Project II (3)
EGM 3512 Engineering Mechanics (4)
EML 3100 Thermodynamics (2)

All electrical engineering majors are required to complete four of the following six Tier-2 courses (at least 12 semester hours):

EEE 4351 Solid-State Electronic Devices (3)
EEE 4510 Digital Signal Processing (3)
EEL 3216 Fundamentals of Power Systems (3)
EEL 3473 Electromagnetic Fields II (3)
EEL 4652 Analysis and Design of Control Systems (3)
EEL 4710/L Introduction to Field Programmable Logic Devices (3/1)

- The technical electives for electrical engineering majors include:
- One semester hour of an approved electrical engineering (EE) laboratory elective,
- Six semester hours must be Electrical Engineering (EE) technical electives, and
- Three semester hours may be an EE technical elective or a non-EE technical elective.

Any EEL or EEE prefixed course which is not required is considered an Electrical Engineering (EE) technical elective with the exception of EEL 3003 and EEL 3003L. Refer to the ECE Department Web site (*http://eng.famu.fsu.edu/ece/*) or consult with the Department for information on available ECE technical electives.

The non-EE technical elective must be selected from a list of departmentally approved courses offered by other departments at Florida State University. Courses not on the list may be taken with prior approval of the department.

Requirements for a Major in Computer Engineering

Note: The computer engineering program has been revised effective fall semester 2020. Some of the courses in the revised program (shown as EEL 4XXX) do not yet have official course numbers. Please see the latest information on the Electrical and Computer Engineering Department website, https://www.eng.famu.fsu.edu/ece.

Students majoring in computer engineering require one hundred twenty-eight semester hours to graduate including:

- Seventy-six hours of common required courses (listed above),
- Ten semester hours of computer science courses (listed below),
- Twenty-one semester hours of additional required computer engineering courses (listed below),
- Nine semester hours of required Computer Engineering (CpE) Core electives (listed below), and
- Twelve semester hours are technical elective courses.

The required Computer Science Courses (thirteen semester hours) are:

COP 3330 Object Oriented Programming (3)
COP 3353 Introduction to UNIX (1)
COP 4530 Data Structures, Algorithms and Generic Programming (3)
MAD 2104 Discrete Mathematics I (3)

The additional required engineering courses for the computer engineering majors are:

CHM 1045/L General Chemistry I & Lab (3/1) OR BSC 2010/L Biological Science 1 & Lab (3/1)
EEL 3003 Introduction to Electrical Engineering (3)
EEL 4710/L Introduction to Field Programmable Logic Devices (3/1)
EEL 4713 Computer Architecture and Organization (3)
EEL 4XXX/L Advanced Microprocessors & Lab (3/1)
EEL 4914C Computer Engineering Senior Design Project II (3)

All computer engineering majors are required to complete three of the following five CpE Core Electives (9 semester hours):

EEL 4XXX Computer Networks (3)
EEL 4XXX Digital Image Processing (3)
EEL 4XXX Introduction to Cybersecurity (3)
EEL 4XXX Programming Languages in CpE (3)
EEL 4XXX Artificial Intelligence (3)

The technical electives for computer engineering majors include:

- Six semester hours must be Computer Engineering (CpE) technical electives, and
- Six semester hours may be CpE technical elective OR non-CpE technical electives.

Any EEL or EEE prefixed course which is not required is considered an Computer Engineering (CpE) technical elective with the exception of EEL 3111, EEL 3112, and EEL 3112L. Refer to the ECE Department Web site (*http://eng.famu.fsu.edu/ece/*) or consult with the Department for information on available EE technical electives.

The non-CpE technical elective must be selected from a list of departmentally approved courses offered by other departments at Florida State University. Courses not on the list may be taken with prior approval of the department.

Required Computer Science Courses (thirteen semester hours)

COP 3330 Object Oriented Programming (3)
COP 3353 Introduction to UNIX (1)
COP 4530 Data Structures, Algorithms and Generic Programming (3)
COP 4610 Operating Systems and Concurrent Programming (3)
MAD 2104 Discrete Mathematics I (3)

Dual Major in Electrical Engineering and Computer Engineering

Students are NOT encouraged to pursue a dual degree in electrical and computer engineering except under exceptional circumstances. Students instead are encouraged to apply for the 4+1 BS/MS program.

Academic Requirements and Policies

In accordance with ABET criteria, all engineering students are subject to a uniform set of academic requirements agreed to by Florida A&M University and Florida State University. These requirements have been established to ensure that program graduates receive a quality education and make reasonable progress toward satisfying engineering major degree requirements. Students are directed to the "FAMU–FSU College of Engineering" chapter of this *General Bulletin* and the departmental Web site *(http://www.eng.famu.fsu.edu/ece*) for a list of all academic requirements and policies.

With the adoption of ABET EC-2000 policies, program requirements, educational objectives, course content and offerings, and departmental policies are subject to periodic revision and change. Students are **strongly** urged to obtain current information from their academic advisor, the academic coordinator, or by visiting the departmental Web site at *http://eng.famu.fsu.edu/ece.*

ECE Course Prerequisite Requirement

In addition to the college course prerequisite requirements, the Department of Electrical and Computer Engineering requires students to have obtained a grade in the range of "C" in **all** courses listed as prerequisites for the department's engineering core courses.

Definition of Prefixes

EEE—Engineering: Electrical and Electronic

EEL—Engineering: Electrical

Undergraduate Courses

EEE 3300. Electronics (3). Prerequisites: EEL 3112 (C- or better) and EEL 3112L (C- or better). Corequisite: EEE 3300 (C- or better). This course covers diode models and circuits, DC biasing of bipolar-junction and field-effect transistors, small- and large-signal transistor models, and frequency analysis of single-stage AC amplifiers.

EEE 3300L. Electronics Laboratory (1). Prerequisites: EEL 3112 and EEL 3112L. Corequisite: EEE 3300. This laboratory supports EEE 3300, Electronics.

EEE 4288. Biomimetic Sensors and Signal Processing (3). Prerequisite: EEL 3135. In this course, biomimetic implies the mimicry of biology. This course covers biologically-inspired structure and function concepts used for novel sensor designs and signal processing. Cursory descriptions of biological phenomena are followed by electronic sensor designs and natural signal processing algorithms. This course focuses on natural sensory systems and innovative engineering applications inspired by them.

EEE 4301. Electronic Circuits and Systems Design (3). Prerequisites: EEE 3300 and EEE 3300L. This course uses computer-aided design programs and covers multistage amplifier analysis and design. The course focuses on feedback and operational amplifiers, A-to-D and D-to-A converters, and waveshaping and waveforming generators, including oscillators, voltage regulators, and power circuits.

EEE 4301L. Electronic Circuits and Systems Laboratory (1). Prerequisites: EEE 3300 and EEE 3300L. This course is an advanced electronic laboratory.

EEE 4313. Introduction to Digital Integrated Circuit Design (3). Prerequisite: EEE 3300. This course covers semiconductor device physics, digital-logic fundamentals, static-inverter analysis, static logic-gate analysis, dynamic-switching analysis, and combinational-logic design.

EEE 4330. Microelectronics Engineering (3). Prerequisites: EEE 3300 and EEE 3300L. This course covers design and fabrication of solid-state devices. Topics include oxidation, diffusion, metallization, photolithography, and device characterization.

EEE 4351. Solid-State Electronic Devices (3). Prerequisites: EEE 3300 and EEE 3300L. This course covers solid-state physics as applied to electronic devices. The course focuses on semiconductor materials, conduction process in solids, device fabrication, diffusion processes, and negative conduction devices.

EEE 4363. Feedback Amplifier Principles (3). Prerequisite: EEE 3300. This course introduces basic concepts of multi-stage audio-frequency amplifiers, including feedback and stability principles and power-supply criteria.

EEE 4376C. Introduction to Analog IC Design (3). Prerequisite: EEE 4301. This course covers the design and analysis of bipolar and MOS analog integrated circuits. The course focuses on operational amplifier design, analog multipliers, active loads, current sources, and active filters.

EEE 4377. Mixed Signal ICs (3). Prerequisite: EEL 4313 or EEL 4376C. This course introduces mixed-signal processing using analog and digital integrated circuits. The course focuses on fundamentals of sampled data systems, nonlinear and dynamic analog circuits, Nyquist-rate data converters, over-sampling data converters and digital filters, as well as the use of computer-aided design programs.

EEE 4450. Modeling and Simulation of Semiconductor Devices (3). Prerequisite: EEE 3300. This course covers various numerical techniques for the modeling and simulation of semiconductor devices, such as pn-junctions, metal-oxide semiconductor contacts, metal-oxide-semiconductor field effect transistors, and bipolar devices. Special emphasis is on the description and simulation of electron and hole transport in semiconductor devices.

EEE 4510. Digital Signal Processing (3). Prerequisite: EEL 3135. This course covers topics such as sinusoids, periodic signals, and Fourier spectra. Sampling of continuous-time signals, aliasing. Impulse response of linear, discrete-time systems, convolution. FIR filters and implementation. Frequency response of FIR filters. Z-transforms. IIR filters, poles and zeros, frequency response. Realization of IIR filters. Discrete Fourier transform and the FFT algorithm. MATLAB exercises are assigned.

EEE 4550. Radar (3). Prerequisites: EEL 3473 and EEL 3135. Corequisite: EEL 4021. This course examines basic concepts of radar systems including radar range equation, radar cross-section calculations, random processes and noise, array antennas, beamsteering, doppler and range processing, FM and CW systems, pulse compression, synthetic aperture radar, and clutter.

EEE 4773. Machine Learning (3). Prerequisites: EEL 3135, MAS 3105, knowledge of Matlab and/or Python, and instructor permission. This course is designed for senior undergraduate students from engineering disciplines and introduces students to the theory and engineering applications of machine learning including neural networks, fuzzy logic, genetic algorithms, supervised and unsupervised learning algorithms. This course places emphasis on engineering applications in controls, power systems, and robotics.

EEL 3002L. ECE Engineering Tools Lab (2). Corequisite: EEL 3111 (C- or better). This is an introductory laboratory for students entering the electrical and computer engineering programs. The basic topics include: lab safety issues; solving engineering problems using software tools such as MATLAB and Mathematica; electric circuit simulations using c software packages such as Multisim and OrCAD; electric circuit design and instrumentation; the proper use of test and measurement equipment.

EEL 3003. Introduction to Electrical Engineering (3). Prerequisites: MAC 2312 and PHY 2049C. This course is an introduction to electrical engineering concepts for non-electrical engineering majors. Covers a broad range of topics including basic circuit theory, semiconductor devices, instrumentation, amplifiers, and machines. Not accepted for credit toward BSEE and BSCpE.

EEL 3003L. Introduction to Electrical Engineering Laboratory (1). Prerequisites: MAC 2312 and PHY 2049C. Corequisite: EEL 3003. This laboratory supports EEL 3003. Must be taken concurrently with first enrollment in EEL 3003. Must be dropped if EEL 3003 is dropped.

EEL 3111. Introductory Circuit Analysis (3). Prerequisite: MAC 2312. Corequisites: MAC 2313 and PHY 2049C. This course explores topics such as current, voltage, and power; resistors, inductors, and capacitors; network theorems and laws; operational amplifiers, phasors; impedances; sinusoidal steady-state analysis.

EEL 3112. Advanced Circuits with Computers (3). Prerequisites: EEL 3111 (C- or better) and EEL 3002L (C- or better). Corequisite: EEL 3112 (C- or better). This course examines sinusoidal steady-state power analysis; three-phase circuits; transient and forced response; frequency response; two-port networks; circuit analysis with computers.

EEL 3112L. Advanced Circuits with Computers Laboratory (1). Prerequisites: EEL 3111, EEL 4905 (Taken as ECE Engineering Tools Lab). Corequisite: EEL 3112. This lab includes instrumentation and measuring techniques; current, voltage, and power measurements; response of passive circuits; AC and DC design; computer application.

EEL 3135. Signal and Linear System Analysis (3). Prerequisite: MAP 3305 or MAP 2302. Corequisites: EEL 3112 and MAS 3105. This course focuses on the classification and representation of signals and systems; Laplace transform; Z-transform; convolution; state variable techniques; stability and feedback.

EEL 3216. Fundamentals of Power Systems (3). Prerequisite: EEL 3112. This course is an introduction to the fundamentals of energy conversion; structure of power systems; and power system components: transformers, rotating machines, and transmission lines. The operation and analysis of power systems are presented.

EEL 3472. Electromagnetic Fields I (3). Prerequisites: EEL 3112, MAP 2302 or MAP 3305, MAS 3105 or MAP 3306, and PHY 2049C. This course explores electrostatic field—Gauss's law; boundary conditions; capacitance; Laplace's and Poisson's equations; energy, forces, and torques. The steady electric current. The magnetostatic field-vector potential; Ampere's and Biot-Stavart laws; inductance; energy, forces, and torques. Quasistatic fields; electromagnetic induction.

EEL 3473. Electromagnetic Fields II (3). Prerequisite: EEL 3472. This course examines topics such as Maxwell's equations, plane electromagnetic waves, group velocity, polarization, Poynting vector, boundary conditions, reflection and refraction of plane waves, skin effect, transmission line analysis, impedance matching, wave guides and cavity resonators, fundamentals of radiation and antennas.

EEL 3705. Digital Logic Design (3). Corequisites: EEL 3111, EEL 3705L. This course covers fundamental topics in digital logic design, algorithms, computer organization, assembly-language programming, and computer engineering technology.

EEL 3705L. Digital Logic Laboratory (1). Corequisite: EEL 3705. This laboratory supports EEL 3705. This course introduces Electrical and Computer Engineering majors to various practical aspects of Digital Logic. This includes analysis, design and testing of digital logic circuits. Design and implementation are covered using Altera devices.

EEL 3927. Engineering Design Concepts (3). Prerequisites: EEL 3111, EEL 3112, ENC 1101, ENC 2135. This course introduces the skills and knowledge necessary to effectively complete a capstone project. Students are presented with concepts in design, systems engineering, project management, engineering team organization, ethics, and professionalism.

EEL 4021. Statistical Topics in Electrical Engineering (3). Prerequisites: EEL 3112 and MAP 3306 or MAS 3105. This course examines the use of probability and statistical concepts in electrical engineering applications. Elementary probability—sets, sample spaces, axioms, joint and conditional probability. Random variables—distribution and density functions. Operations in random variables—expectation, moments, transformation of random variables. Introduction to random processes. Multiple random variables. Elements of statistics: parameter estimation and hypothesis testing.

EEL 4113. Advanced Linear Networks (3). Prerequisite: EEL 3135. This course explores topics such as synthesis of LC one-port networks, synthesis of LC two-port networks; operational amplifier applications; active filters; approximation methods; switched-capacitor filters.

EEL 4213. Power Systems I (3). Prerequisite: EEL 3216. This course focuses on the analysis of electric power systems using system modeling for large-scale power networks; admittance and impedance matrix formation; power flow; optimal dispatch; symmetrical components; balanced and unbalanced fault analysis; and transient stability studies.

EEL 4217L. Power and Energy Lab (1). Prerequisite: EEL 3216. This course is intended to give the student practical experience with motors, generators, transformers and power system instrumentation equipment. Students learn the principles of electromechanical energy conversion by connecting, operating, and controlling induction, synchronous, and dc machines. Transport of electrical energy through transmission lines is also explored.

EEL 4220. Electromechanical Dynamics (3). Prerequisites: EEL 3216 and EEL 3472. This course focuses on the study of magnetic circuits, electromagnetic torques, and induced voltages. Topics covered include induction motors, variable speed drives, Park's transforms, synchronous machines and generator controls, DC machines, controls, and drives.

EEL 4231. Converter Modeling and Control (3). Prerequisite: EEL 4243. This course provides a study of DC-AC and DC-DC converter-modeling techniques and control schemes. Topics include average switch models, voltage-source and current-source converter models, current programmed control, and active filter control.

EEL 4243. Power Electronics (3). Prerequisites: EEE 3300 and EEL 3135. This course is designed to develop a basic understanding of using switched electronic circuits for the conversion and regulation of power. The course focuses on the basic converters and their steady state analysis. Dynamic modeling analysis, controller design, power semiconductor device, and simulation also are covered.

EEL 4244. Power Conversion and Control (3). Prerequisites: EEE 3300 and EEL 3112. This course introduces solid-state power conversion and control circuits, including analysis and design of nonlinear multiple-phase circuits with sinusoidal and non-sinusoidal variables; constant-frequency and variable-frequency input conversions; variable-frequency inverters; sensing and processing circuits supporting control systems; and embedded microprocessor control systems.

EEL 4280. Renewable Energy Generation I (3). This course is an introduction to renewable energy generation. Topics covered include smart grid system, hybrid electric vehicle, and grid-connected PV inverters. Emphasis is placed on the energy conversion techniques applied in the renewable energy source and energy storage elements.

EEL 4282. Renewable Energy Generation II (3). This course is an introduction to renewable energy generation. Topics covered include smart grid system, hybrid electric vehicle, and grid-connected PV inverters. Emphasis is placed on the energy conversion techniques applied in the renewable energy storage elements.

EEL 4415. Sonar (3). Prerequisites: EEL 3473 and EEL 3135. Corequisite: EEL 4021. This course introduces basic concepts of sonar systems including acoustic propagation, transducers and projectors, target strength, reverberation, beamsteering, beamforming, beampatterns, and synthetic aperture sonar.

EEL 4435L. Electromagnetics Laboratory (1). Prerequisite: EEL 3473. This course focuses on the applications of electromagnetic field theory. Experiments include field mapping, transmission lines, spectrum analysis, impedance matching, waveguides, antennas, radar, and fiber optics.

EEL 4440. Optoelectronics and Optical Systems (3). Prerequisites: EEE 3300 and EEL 3473. This course examines the theory and applications of optical techniques in modern electronics and communications. Includes a study of optical fibers, sources, detectors, optical communication systems, integrated optics, holography, and principles of optical signal processing.

EEL 4452. Optical Sensors (3). Prerequisite: EEL 3473. This course examines the basic concepts of optical sensors and essential optics. Topics include intensity, phase, and frequency modulated optical fiber sensors and their applications, distributive sensing systems, and optical fibers in signal processing.

EEL 4461. Antenna Systems (3). Prerequisite: EEL 3473. This course covers topics such as antenna theory, including Hertzian dipoles, thin linear antennas, aperture antennas, arrays, loop antenna, slots, horns, and waveguides.

EEL 4515. Digital Communication Systems (3). Prerequisite: EEL 3135 (C- or better). Corequisite: EEL 4021 (C- or better). This course covers topics such as sampling principle, spectral analysis of digital waveforms and noise, pulse and digital transmission systems, digital multiplexing, error probabilities, and system performance.

EEL 4566. Optical Fiber Communications (3). Prerequisites: EEL 3473 and EEL 3135. Corequisite: EEL 4021. This course offers a review of the characteristics of basic optical components for optical communications systems. Topics include optical fibers, light sources, optical detectors and fiber connectors; signal degradation in optical fibers, optical analog and digital communication systems; and coherent optical fiber communications.

EEL 4595. Wireless Communications and Networking (3). Prerequisites: COP 3014 or equivalent, EEL 3135, and EEL 4021. This course covers the fundamentals of wireless communications and systems. The core topics include radio-wave propagation characteristics of wireless channels; modulation and demodulation techniques for mobile radio; reception techniques for wireless systems; fundamentals of cellular communications; multiple access techniques; wireless networking; and hybrid networking of a wireless system and the Internet.

EEL 4596. Advanced Topics in Communications (3). Prerequisites: EEL 3135, EEL 4515 and EEL 4021. This course is designed to provide an in-depth knowledge of some of the advanced topics in communications. Topics covered include ideal communication systems, signal to noise ratio (S/N) for amplitude and angle modulation, design of systems to improve S/N ratio, satellite communication, and mobile communication.

EEL 4652. Analysis and Design of Control Systems (3). Prerequisite: EEL 3135. This course focuses on continuous system modeling; stability of linear systems; frequency response methods; the root locus method; state-space methods.

EEL 4710. Introduction to Field Programmable Logic Devices (3). Prerequisites: EEL 3705 and EEL 3705L. This course offers an overview of programmable logic devices, complex programmable logic devices, and field-programmable gate-array devices. The course offers an introduction to hardware description languages (HDLs); combinational, sequential, and finite-state machine design using HDLs; as well as top-down methodologies.

EEL 4713. Computer Architecture (3). Prerequisites: COP 3014 and EEL 4746. This course presents modern computer architectures by studying how the relationships between hardware and software impact performance, machine language definition, processor data path and control designs, interfacing, and advanced topics.

EEL 4727. Digital Signal Processing with Field Programmable Gate Arrays (3). Prerequisite: EEL 4710. This course is a review of Field Programmable Gate Arrays (FPGAs), HDL, mathematics, signals and systems. Computer arithmetic concepts, DSP system design of FIR filters, IIR filters, DFT, FFT, and wavelets filter banks are also covered.

EEL 4746. Microprocessor-Based System Design (3). Prerequisites: EEL 3705 (C- or better) and EEL 3705L (C- or better) and COP 3014 (C- or better). This course explores fundamental topics in basic computer design, structured assembly-language software design, RTL, CPU design, pipelining and superscaling, computer arithmetic, memory and I/O organization and interface, cache, and design tools.

EEL 4746L. Microprocessor-Based System Design Laboratory (1). Prerequisites: EEL 3705 (C- or better) and EEL 3705L (C- or better). Corequisite: EEL 4746 (C- or better). This laboratory focuses on software development, hardware projects, and experiments in support of EEL 4746.

EEL 4748. Embedded Microcomputer Design Project (3). Prerequisites: EEL 4746 and EEL 4746L. This course allows students to work on individual projects selected with consent of instructor. Selected lectures and an open-door Motorola 68000 laboratory.

EEL 4810. Introduction to Neural Networks (3). Prerequisites: EEE 3300 and EEL 3135. This course covers fundamentals of neural networks: dynamical systems, associative memories, perceptrons, supervised/unsupervised learning algorithms. Applications in signal processing, pattern recognition, control, optimization, and communications.

EEL 4905r. Directed Individual Study (1–3). Prerequisites: Junior standing and "B" average in electrical engineering courses. Normally may be repeated to a maximum of six semester hours. Requires department approval.

EEL 4906r. Honors Work in Electrical Engineering (1–6). Prerequisite: Admission to the honors program. This course consists of independent or directed research in a specialized area beyond the current curriculum in electrical engineering. May be repeated to a maximum of nine semester hours.

EEL 4911C. Senior Design Project I (3). Prerequisite: Prerequisites: EEL 3111, EEL 3112, EEL 3135, EEL 3705, EEE 3300, EEL 3472, EEL 4021, EEL 4515, EEL 4746, EEL 4710 and COP 4530. This course exposes senior students to concepts in design, project management, engineering team organization, and professionalism. Students are grouped into design teams where these principles are put into practice in organizing, proposing, and developing an engineering project. Periodic written reports and oral presentations and a final written proposal are required. The lecture material and texts provide instructions on project management, ethics, and design skills.

EEL 4914C. Computer Engineering Senior Design Project II (3). Prerequisite: EEL 4911C. This course exposes senior students to the concepts in design, project management, engineering team organization, ethics, design skills, and professionalism. Students are grouped into design teams where these principles are put into practice in organizing, proposing, and developing an engineering project. Periodic written reports and oral presentations, and a final written report are required.

EEL 4915C. Electrical Engineering Senior Design Project II (3). Prerequisite: EEL 4911C. This course exposes senior students to the concepts in design, project management, engineering team organization, ethics, design skills, and professionalism. Students are grouped into design teams where these principles are put into practice in organizing, proposing, and developing an engineering project. Periodic written reports and oral presentations, and a final written report are required.

EEL 4930r. Special Topics in Electrical Engineering (3). This course covers special topics in electrical engineering with emphasis on recent developments. Topics vary; consult the instructor. May be repeated to a maximum of twelve (12) credit hours.

Graduate Courses

EEE 5280. Biomimetic Systems Theory (3).
EEE 5315. Digital Integrated Circuit Design (3).
EEE 5317. Power Electronics (3).
EEE 5333. Solid State Sensors (3).
EEE 5378. Mixed Signal ICs (3).
EEE 5452. Analysis of Quantum Scale Semiconductor Devices (3).
EEE 5542. Random Processes (3).
EEE 5557. Radar (3).
EEE 5776. Machine Learning (3).
EEE 6353. Semiconductor Device Theory (3).
EEE 6502. Digital Signal Processing I (3).
EEL 5025. Computational Electrical Engineering (3).

EEL 5173. Signal and System Analysis (3).
EEL 5247. Power Conversion and Control (3).
EEL 5250. Power Systems Analysis (3).
EEL 5270. Power System Transients (3).
EEL 5285. Renewable Energy Generation I (3).
EEL 5286. Renewable Energy Generation II (3).
EEL 5288. Integration of Distributed Generation (3).
EEL 5416. Sonar (3).
EEL 5426. RF/Microwave Circuits I (3).
EEL 5427. RF/Microwave Circuits II (3).
EEL 5454. Optical Sensors (3).
EEL 5465. Antenna Theory (3).
EEL 5486. Advanced Electromagnetic Theory (3).
EEL 5500. Digital Communication Theory (3).
EEL 5563. Optical Fiber Communications (3).
EEL 5590. Advanced Topics in Communication (3).
EEL 5591. Wireless Communications and Networking (3).
EEL 5667. Robot Kinematics and Dynamics (3).
EEL 5707. ASIC Systems Design I (3).
EEL 5722. Digital Signal Processing with Field Programmable Gate Arrays (3).
EEL 5764. Computer System Architecture (3).
EEL 5784. Computer Network Design and Analysis (3).
EEL 5812. Advanced Neural Networks (3).
EEL 5905r. Directed Individual Study (1–3). (S/U grade only.)
EEL 5910r. Supervised Research (1–5). (S/U grade only.)
EEL 5930r. Special Topics in Electrical Engineering (3).
EEL 5940r. Supervised Teaching (1–5). (S/U grade only.)
EEL 6237r. Modern AC Drivers (3).
EEL 6266. Power Systems Operation and Control (3).
EEL 6930r. Special Graduate Topics in Electrical Engineering (3).
EEL 6932r. Electrical and Computer Engineering Seminar (0).
EEL 6971r. Master's Thesis Research (1-12).

For listings relating to the master's and doctoral programs in electrical engineering, consult the *Graduate Bulletin*.

ELEMENTARY EDUCATION:
see Childhood Education, Reading, and Disability Services

Undergraduate Department of ENGLISH

College of Arts and Sciences

Website: *http://www.english.fsu.edu/*

Chair and Dahl and Lottie Pryor Professor: Gary Taylor; **Robert O. Lawton Professors:** S. E. Gontarski, David Kirby; **Francis Eppes Professor:** Robert Olen Butler; **Bertram H. Davis Professor:** Bruce Boehrer; **Janet Burroway Professor:** Mark Winegardner; **Kellogg Hunt Professor:** Kathleen Yancey; **George Mills Harper Professor:** Judith Pascoe; **Frances Cushing Ervin Professor:** Aaron Jaffe; **George Matthews Edgar Professor:** A.E.B. Coldiron; **Professors:** Bourus, Caputi, Edwards, Epstein, Faulk, Fleckenstein, Fumo, Goodman, Johnson, Kimbrell, McGregory, Montgomery, Roberts, E. Stuckey-French, Suarez, Ward; **Associate Professors:** Barajas, Gaines, Gants, Gardner, Graban, Horack, Kennedy, Kilgore, Lathan, Laughlin, Neal, Stilling; **Assistant Professors:** Della Gatta, Eckert, Fiscus, Garcia, Howard, Mariano, Maurette, Parker-Flynn, Ribó, Tran; **Senior Lecturers:** Hamby, Schacochis; **Associate Lecturers:** Hand, Howell; **Professors Emeriti:** Berry, Bickley, Burke, Burroway, Crook, Fenstermaker, Lhamon, McElrath, O'Rourke, Ortiz-Taylor, Rowe, Walker

The Department of English offers students a curriculum that is central to the modern liberal arts education. One of the largest degree programs in the College of Arts and Sciences, the undergraduate major in English allows students to emphasize literature, media, and culture; creative writing; or editing, writing, and media. Students may also pursue other specialized programs such as honors in the major, an English major with an emphasis in business, or Directed Independent Studies. In addition to its primary benefits to intellectual growth, the English major also offers practical preparation for professional careers in teaching, professional writing, law, business, religious affairs, and all levels of government service: local, state, and federal.

The study of literature, media, and culture includes not only contemporary texts but also all the historical periods of British, American, and other literature. In addition to familiar period or major authors courses such as the Victorian novel or Chaucer, students will also find courses in related subjects such as linguistics, popular culture, gender studies, multiethnic literature, folklore, postcolonial literature, modern European fiction, and literary theory. Courses will endeavor as well to broaden students' conceptualization of the close relationship between literary texts as cultural artifacts to include other forms of writing and media.

The study of creative writing allows students to work not only in the familiar genres of poetry, fiction, drama, and the essay, but also to study related subjects such as rhetoric and composition theory. Students may also study the editorial and publishing process and take up internships in editing and publishing in a variety of settings.

The study of editing, writing, and media engages students in the history, theories, and practices of textual formation. It provides writing-intensive courses focusing on the practical aspects of new media and print composition. Students also study the history of textuality as well as hands-on courses in visual rhetoric, editing, and publishing.

The English honors program, traditionally the largest in the University, invites the very best students to supplement regular major work with specialized seminars and independent thesis work.

A variety of activities and facilities are available to all majors. Two literary magazines, *Kudzu Review* and *The Southeast Review*, are published in the department. Many students gain journalistic experience by writing for the independent campus newspaper, the *FSView & Florida Flambeau*. The department sponsors a year-long visiting writers series that brings twelve to fourteen writers and scholars to campus each year. The English department, in conjunction with the campus-wide Opening Nights arts program, also promotes headline writers, such as John Updike and Amy Tan. There are two computer classrooms that house computer-assisted writing instruction, and seminar rooms that are equipped with smartboards. All majors with a GPA above 3.0 are eligible to apply for membership in **Sigma Tau Delta**, the local chapter of a national literary honor society, which sponsors a variety of social events and career programs.

The department annually recognizes outstanding achievement with the following awards and honors: the Fred L. Standley Award for Undergraduate Excellence in English, the George Harper Award for Outstanding Essay Writing, the Betty Corry Award for Outstanding Undergraduate Creative Writing, the Cody Harris Allen Undergraduate Writing Award, the John MacKay Shaw Academy of American Poets Award, the George Yost Essay Award, and the Mart P. and Louis Hill English Honors Thesis Award.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in English satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, CGS 2518, or EME 2040.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

English Language and Literature

1. ENC X101 and ENC X102, or ENC XXXX: English courses for a total of six credit hours in which the student is required to demonstrate college-level English skills through multiple assignments

Note: A "C" grade or better is required for all coursework.

College Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Prerequisites for the Major

In order to satisfy prerequisites for the English major, students must accomplish the following:

1. Completion of at least fifty-two semester hours of acceptable college credit with an overall GPA of at least 2.0
2. Satisfactory completion ("C–" or better) of all courses necessary for the writing requirement (State Board of Education Rule 6A-10.030).

Requirements for a Major in English

General Requirements: Thirty-six semester hours of English in courses at the 2000 level and above. At least twenty-one semester hours must be in courses at the 3000 and 4000 levels, including at least nine semester hours at the 4000 level. Honors thesis hours may be applied toward the Bachelor of Arts (BA) degree, but only three semester hours will be accepted for major credit. One English course used to satisfy the humanities requirement for liberal studies may be counted as part of the major. All courses counted toward the major must carry the grade of "C–" or better. **A minor in another department is also required**; all courses counted toward the minor also must carry the grade of "C–" or better.

Each student will choose one of the following areas:

1. **Concentration in Literature, Media, and Culture**
   a. **Twelve semester hours in four core courses:** ENG 2012 Introduction to English Studies; LIT 3112 History I; LIT 3124 History II; and ENG 3014 Understanding Theory and Criticism (must be taken before student reaches ninety semester hours)
   b. **Twelve semester hours of Distribution Electives:** Six hours of Diversity courses; three hours of Pre-1800 courses; and three hours of Understanding Genres
   c. **Electives:** Nine semester hours in other English courses at the 2000 level and above
   d. **Literature Capstone:** Three semester hours in ENG 4934 Senior Literature Seminar (must be taken after student reaches ninety semester hours)
2. **Concentration in Creative Writing**
   a. **Twelve semester hours in four core Writing Courses:** ENG 2012 Introduction to English Studies; ENC 3310 Article and Essay Technique; CRW 3110 Fiction Technique; CRW 3311 Poetic Technique
   b. **Advanced Writing Workshops:** Six hours of Advanced Writing Workshops, any combination of two (six hours) required. ENC 4311 Advanced Article and Essay Workshop; CRW 4120 Advanced Fiction Workshop; CRW 4320 Advanced Poetry Workshop. Advanced workshops are repeatable for up to nine credit hours.
   c. **Literature Courses:** Fifteen semester hours of literature, of which at least three semester hours shall be in British literature before 1900 at the 3000 or 4000 level
   d. **Electives:** Three semester hours in other English courses at the 2000 level and above
3. **Concentration in Editing, Writing, and Media**
   a. **Twelve semester hours in four core courses:** ENG 2012 Introduction to English Studies; ENC 3021 Rhetoric; ENC 3416 Writing and Editing in Print and Online; ENG 3803 History of Text Technologies
   b. **Nine semester hours of advanced courses.**
      i. ENC 4218: Visual Rhetoric
      ii. ENG 4834: Issues in Publishing
      iii. ENC 4212: Editing: Manuscripts, Documents, Reports
      iv. ENG 4020: Rhetorical Theory and Practice
      v. ENG 3804: History of Illustrated Texts
      vi. ENC 4404: Advanced Writing and Editing
      vii. ENG 4815: What is a Text?
   c. **Three hours Internship in Editing** (ENC 4942)
   d. **Twelve credit hours of completed core courses are required to apply and register for ENC 4942.**
   e. **Twelve hours English electives, at the 3000 or 4000 level**

Transient Students

Students may take a maximum of three courses (maximum of nine credit hours) in the major at another institution, excluding foreign language. Applicable to electives only.

Honors in the Major

The Department of English offers honors in the major to encourage talented students to undertake independent research through two special seminars (or one special seminar and one honors course in the major) and two semesters of thesis work. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin* and the Director of Undergraduate Studies in English. Contact *English-Advising@fsu.edu*.

Requirements for a Minor in English

At least twelve semester hours in English courses numbered above 1999. Students must have at least a "C–" average in the minor.

Definition of Prefixes

AML—American Literature
CRW—Creative Writing
ENC—English Composition
ENG—English: General
ENL—English Literature
HUM—Humanities
IDS—Interdisciplinary Studies
LAE—Language Arts and English Education
LIN—Linguistics
LIT—Literature
REA—Reading

Undergraduate Courses

AML 2010. American Authors to 1875 (3). This course covers important writings by representative American authors from the colonial period through the post-Civil War era. Typically included are Franklin, Irving, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Douglass, and Emily Dickinson.

AML 2600. Introduction to African-American Literature (3). This course offers a survey of the canonical works of African-Americans, typically including Douglass, Chesnutt, Hurston, Wright, Ellison, Baldwin, Morrison, and Walker.

AML 3041. American Authors Since 1875 (3). This course covers significant works by representative Realists, Literary Naturalists, Modernists, and contemporary writers. Authors typically covered include Twain, James, Crane, Chopin, Eliot, Hemingway, Frost, Fitzgerald, Faulkner, Wright, Baldwin, Morrison, and O'Connor.

AML 3311. Major Figures in American Literature (3). This course examines selected works of major American writers.

AML 3630. Latino/a Literature in English (3). This course offers an introduction to landmark Latino/a works written in English.

AML 3673. Asian American Literature (3). This course introduces students to selected works of Asian American literature, focusing on Asian Indian, Pacific Islander, Filipino, Chinese, Japanese, Cambodian, and Vietnamese American writers. Common topics include issues of diaspora, dislocation, and cross-culturality.

AML 3682. American Multi-Ethnic Literature (3). This course introduces cross-cultural literary traditions, looking at historical rationales and interconnections among communities as well as vital differences.

AML 4111. The 19th-Century American Novel (3). This course covers from Brown and Cooper to Hawthorne, Melville, Twain, and Crane.

AML 4121. The 20th-Century American Novel (3). This course typically covers Dreiser, Dos Passos, Fitzgerald, Hemingway, Faulkner, Bellow, and Wright.

AML 4213. Early American Literature and Culture before 1800 (3). Suggested prerequisite: AML 2010. This course focuses on varying topics in pre-1800 American literature and culture, such as exploration and captivity narratives, Native American literature, the Puritan tradition, the enlightenment and revolutionary eras in America, the trans- and circum-Atlantic world, the slave trade, early-American print culture (including the novel), gender studies, and/or selected authors.

AML 4261. Literature of the South (3). This course offers a survey from Colonial times to the present, including Byrd, Poe, Simms, Cable, Faulkner, Warren, O'Connor, and others.

AML 4604. The African-American Literary Tradition (3). This course examines selected works by African-American writers in their social, historical, and cultural contexts.

AML 4680r. Studies in Ethnic Literature (3). This course is an advanced study offering a survey of a particular ethnic literary tradition and adopting a cultural studies model. May be repeated up to a maximum of twenty-four semester hours.

CRW 3110. Fiction Technique (3). This course is an analysis of and exercises in the elements of fiction: point of view, conflict, characterization, tone, and image.

CRW 3311. Poetic Technique (3). This course is for aspiring poets and critics. The course studies the elements of poetry with some practice in writing poetry.

CRW 3410. Dramatic Technique (3). This course is an introduction to playwriting, with emphasis on the relation of the written drama to production. Both published plays and student work are analyzed.

CRW 4120r. Fiction Workshop (3). Prerequisite: CRW 3310. This course enables practice in short story, novella, or novel. Students are expected to work toward submission and publication of manuscripts. May be repeated to a maximum of nine semester hours.

CRW 4320r. Poetry Workshop (3). Prerequisite: CRW 3311. This course is for poets who approach excellence and aspire toward publication. May be repeated to a maximum of nine semester hours.

CRW 4420r. Drama Workshop (3). Prerequisite: Instructor permission. This course allows students to write, revise, and prepare for submission a one to three-act play; playing time: not less than one hour. May be repeated to a maximum of twenty-four semester hours.

ENC 1101. Freshman Composition and Rhetoric (3). This course includes drafting and writing of expository essays and a journal for a total of 7,000 words. May not be taken by students with credit in ENC 1149. No auditors.

ENC 1102. Freshman Writing, Reading, and Research (3). Prerequisite: ENC 1101 or ENC 1149. This course includes reading, research, drafting, and writing of essays and a journal for a total of 7,000 words. No auditors.

ENC 1121. Freshman Composition and Rhetoric: Honors (3). This accelerated course is designed for honors students. Therefore, their level of performance is expected to exceed the level attained by students in ENC 1101. Enrollment through the honors program.

ENC 1122. Freshman Writing About Literature: Honors (3). This course, as a literature-based composition course, draws essay topics from selected short stories, drama, and poetry. This accelerated course is designed for honors students; thus, their level of performance is expected to exceed the level attained by students in ENC 1102. Enrollment through the honors program.

ENC 1142. Freshman Imaginative Writing Workshop (3). Prerequisite: ENC 1101 or ENC 1149. This course includes freshman-level creative writing with some critical analysis of literature; emphasizes workshop atmosphere with class participation. Workshops offered in both poetry and fiction. Written work totals 7,000 words. Should not be taken by students with final grades below "C" in ENC 1101. No auditors.

ENC 1144. Freshman Article and Essay Workshop (3). Prerequisite: ENC 1101 or ENC 1149. This course is designed to help students attain a level of competency in nonfiction prose beyond that attained in ENC 1101. Emphasizes workshop atmosphere with class participation. Written work totals 7,000 words. No auditors.

ENC 1145. Freshman Special Topics in Composition (3). Prerequisite: ENC 1101 or ENC 1149. This course includes freshman-level nonfiction prose writing on selected subjects for a total of 7,000 words. Topics vary. No auditors.

ENC 1905r. Improving College-Level Writing (1–3). (S/U grade only.) This course is an individualized program of instruction in writing, including CLAS skills. Open to students from all levels and major areas. May be repeated to a maximum of three semester hours.

ENC 2135. Research, Genre, and Context (3). Prerequisite: ENC 1101. This course focuses on teaching students research skills that allow them to effectively incorporate outside sources in their writing and to compose in a variety of genres for specific contexts.

ENC 3021. Rhetoric (3). This course introduces students to key concepts in the study of rhetoric; to frameworks useful for the analysis of texts, events, communication, and other phenomena; and to the principles of rhetoric in the contexts of many media and cultures.

ENC 3310. Article and Essay Technique (3). This course introduces students to the study and writing of nonfiction prose in a variety of modes, with emphasis on studying the elements of nonfiction prose and practice in the craft of writing.

ENC 3416. Writing and Editing in Print and Online (3). This course focuses on the principles of composing, especially across different composing spaces. Students create works in several different media, including (1) in print, (2) on the screen, and (3) for the network, while also learning how to edit the works deployed in each medium appropriately. In addition, students repurpose at least one of these works for another medium. Students conclude the course by creating a digital portfolio.

ENC 3493. Peer Tutoring in the Reading-Writing Center and Digital Studio (3). This course explores acts of reading, writing, and composing: the people who do it, how they do it, and how to help others do it. Students are trained to tutor in the Reading-Writing Center and/or Digital Studio and actively work in those spaces. Completion of the course allows students to apply for openings in the RWC/DS staff.

ENC 4212. Editing: Manuscripts, Documents, Reports (3). This course involves the actual editing of another's work, synthesizing another's ideas and data, structuring and clarifying.

ENC 4218. Visual Rhetoric (3). This course introduces students to the principles of visual rhetoric, especially as it is enacted across diverse media, shaped by multiple genres, and designed to achieve different goals with different audiences. Students will learn to analyze the rhetorical function of imagery, to use images to respond to and organize arguments, and to create images that operate rhetorically.

ENC 4311r. Advanced Article and Essay Workshop (3). Prerequisite: ENC 3310. This course covers the craft and art of creative nonfiction writing. Course content is mainly practical and craft-based, and explores where authors wish to go with a particular draft, and how readers and writers engaged in a common cause might help the author get there. May be repeated to a maximum of nine semester hours.

ENC 4352. Editing Workshop (3). This course explores the newsletter genre through analysis and production. Students read, respond to, and analyze a range of newsletter samples before engaging in the process of collaboratively designing, writing, and editing a newsletter that is disseminated digitally to its intended audience.

ENC 4404. Advanced Writing and Editing (3). This course provides advanced level work in diverse forms of writing and editing. Students read, write, and theorize about what it means to compose in multiple contexts: handwriting, print, and on the Web. Students compose and edit a diversity of texts to be shared with a wide range of audiences, the academic as well as the public.

ENC 4500. Theories of Composition (3). Prerequisites: ENC 3310 and instructor permission. This course is an examination of topics in the teaching of composition, including theories of the composing process, invention, revision, assigning, and evaluating student writing, and the relationship between writing and reading.

ENC 4942r. Internship in Editing (1–6). (S/U grade only.) Recommended prerequisite: ENC 4212. This course provides practical experience in editing, public relations, and other forms of written communications. May be repeated to a maximum of six semester hours; only three hours apply to majors.

ENG 2012. Introduction to English Studies (3). This course prepares students to be English majors, shows how English studies can be used both in college and in the students' career choices, and exposes students to the pleasure of reading, writing, and using language to its best effect.

ENG 3010. Introduction to Literary Analysis (3). This course introduces students to the fundamental concepts and techniques of literary analysis. It is strongly recommended that students complete this course before taking any of the 3000- and 4000-level literature courses. This course provides students with the critical vocabulary and skills of close reading and interpretation needed to engage in the analysis of literary works. Students read a wide range of literary texts in fiction, poetry, drama, and nonfiction in order to learn how to engage in the process of literary interpretation and produce their own analyses of literary and cultural texts.

ENG 3014. Understanding Theory and Criticism (3). This course is an introduction to the issues and debates that inform contemporary literary studies. Required course for English Literature concentration.

ENG 3310. Film Genres (3). This course discusses film as a means of exploring the problems of genre studies: relationship to literary genres, historical continuity, transformation of genre in the film medium.

ENG 3600. Hollywood Cinema (3). This course surveys central problems in the study of mainstream U.S. cinema. Topics include major historical developments, arguments over social and aesthetic value, and close examination of critically important films.

ENG 3803. History of Text Technologies (3). This course is an introduction to the history of the changing technologies that humans have used to record and transmit their experiences across time and space. It surveys the variety of forms this effort has taken, including tattoo, scroll, manuscript, print, illustration, musical notation, phonograph, photograph, film, and digital multimedia. Students investigate how such technologies have shaped the way we produce, transmit, and receive texts and other creative representations of human experience, as well as each technology's social and cultural conditions.

ENG 3804. History of Illustrated Texts (3). This course explores the relationship between image and word in different historical eras by examining various texts and media. Students read, respond to, and analyze a range of materials, which may include Medieval manuscripts and graphic novels. Finally, students produce an original composition involving the interplay of image and language.

ENG 3931r. Topics in English (1–3). May be repeated to a maximum of twenty-four semester hours.

ENG 3943r. Kudzu Review Undergraduate Magazine (0–3). (S/U grade only.) Prerequisite: Instructor permission. This course is a practicum intended to provide each student with practical experience in the field of literary editing. Students work under the direction of the Senior Editor throughout the process of soliciting, judging, and editing manuscripts for the Kudzu Review. Students also work together throughout the process of magazine lay-out as well as magazine printing and distribution. May be repeated to a maximum of six semester hours.

ENG 3949r. Experiential Learning (0). (S/U grade only.) This non-credit, experiential learning course offers students an opportunity to gain "real world" on-the-job experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

ENG 4013. Literary Criticism (3). This course is a historical overview of critical texts that consider the nature of literature from antiquity to the early 20th century. Typically includes readings from Plato, Aristotle, Wroth, Dryden, Wollstonecraft, Wordsworth, Coleridge, Arnold, Eliot, and Woolf.

ENG 4020. Rhetorical Theory and Practice (3). Prerequisites: ENC 3310 and instructor permission. This course emphasizes contemporary developments in rhetoric and their applicability to writing. For upper-division students who intend to teach English composition.

ENG 4043. Contemporary Critical Theory (3). Prerequisite: Instructor permission. This course is an advanced study of crosscurrents in later 20th-century critical theory.

ENG 4115. Film Theory (3). This course considers centrally important theories of film from the 1920s work of Eisenstein through the 1970s "gaze" theories of Metz and Mulvey, to the present. The course emphasizes what distinguishes film from other arts as well as its socio-historical causes and consequences.

ENG 4815. What is a Text? (3). Prerequisites: 3000-level core courses in major and 4000-level coursework recommended. This course investigates the nature of textuality and its relationship to various media and technologies, while exploring theoretical and practical questions related to the production and reception of texts in a variety of different forms and media. Students read works in which textuality is broached as a topic, including multimedia texts, and also produce a final project in at least two different media.

ENG 4816. Introduction to Digital Humanities (3). This course gives students an introduction to the ongoing digital transformation of humanities scholarship, as well as applied introductory skills in the practice of digital humanities. Particular topics may vary, but each course taught under this number explores critically and practically one of several configurations of digital scholarship in the humanities today, including digital literary studies, humanities computing, digital cultural history, new media and network culture, virtuality and games, and digital curation. Students are introduced to the critical issues shaping any of the concentrations, and learn technical skills to interact with and produce work within the particular field.

ENG 4834. Issues in Publishing (3). Prerequisite: 3000-level core courses in the major recommended. This course explores a wide range of issues in the history and practice of publishing, editing, and the production and distribution of texts from the twentieth and twenty-first centuries as well as from earlier historical periods. These issues include the book as object, the ethics of publishing, the history of reading, and censorship, as well as the rise of print culture. It also includes practical training, introducing students to the work that editors currently perform in magazine and book publishing.

ENG 4905r. Directed Individual Study (1–3). Topic to be approved by the director of undergraduate English studies. May be repeated to a maximum of twenty-four semester hours.

ENG 4910. Research in Renaissance Literature (3). This course is designed to engage students in the authentic work of scholarly research in Renaissance/early modern literature. Hands-on work in research archives and databases builds toward a final research project with multimedia components.

ENG 4932r. Studies in English (1–3). Topics vary. For senior majors and qualified students. May be repeated to a maximum of twenty-four semester hours.

ENG 4934. Senior Seminar in Literature (3). Prerequisites: Ninety semester hours of college work. Topics vary. Required for senior English majors concentrating in literature.

ENG 4936r. Honors Thesis (1–6). Prerequisites: Instructor permission and admission to the department's honors-in-the-major program. The student takes two semesters of thesis work. May be repeated to a maximum of nine semester hours.

ENG 4938r. Advanced Seminar in English (3). Prerequisite: Admission to the department's honors-in-the-major program. The honors student takes two seminars. Permission required. May be repeated to a maximum of six semester hours.

ENG 4996r. Tutorial in English (1–3). May be repeated to a maximum of three semester hours.

ENL 2022. British Authors: Early Romantics to the Present (3). This course is a survey of English masterworks intended for students in liberal studies and those exploring a literature major. Among the authors typically considered are Wordsworth, Dickens, and Conrad.

ENL 3184. British Drama: History, Text and Criticism (3). This course is an introduction to the history of the British drama and its current representation on the London stage. Students read and attend performances of plays from the major periods of British literary and dramatic history, from the Renaissance to the modern period.

ENL 3210. Medieval Literature in Translation (3). This course explores literature of the Anglo-Saxon and Anglo-Norman periods: Beowulf, Romance of the Rose, Sir Gawain and the Green Knight, and others.

ENL 3334. Introduction to Shakespeare (3). This course is an introduction to the study of Shakespeare at the college level. Consideration of representative works of comedy, history, tragedy, tragic-comedy drawn from throughout the playwright's career.

ENL 3591. Renaissance Source Texts: Essential Reading in the Age of Shakespeare (3): This course focuses on the literary and cultural texts from the Greek, Roman, and later European traditions that were essential reading in the English Renaissance and that shaped literary culture in the age of Shakespeare. This course includes attention to the history of literary genres and to the history of reading. Authors studied may include: Homer, Virgil, Ovid, the Bible, Aristotle, Horace, Strabo, Lucretius, Plutarch, Seneca, Plautus, Augustine, Erasmus, della Mirandola, among others.

ENL 4112. The 18th-Century British Novel (3). This course typically includes Defoe, Richardson, Fielding, Sterne, Burney, and Radcliffe.

ENL 4122. The 19th-Century British Novel (3). This course typically includes Scott, Thackeray, Dickens, Trollope, Eliot, and Hardy.

ENL 4132. The Modern British Novel (3). This course typically includes Conrad, Lawrence, Joyce, Woolf, Greene, Spark, and Lessing.

ENL 4161. Renaissance Drama (3). This course focuses on the English drama by Shakespeare's contemporaries and successors from Marlowe until the closing of the theatres in 1642.

ENL 4171. Restoration and 18th-Century Drama (3). This course includes representative plays of the period 1660—1800. May include plays by Dryden, Etherege, Wycherley, Otway, Congreve, Farquhar, Steele, Rowe, Gay, Fielding, Goldsmith, and Sheridan.

ENL 4218. Middle English Romance (3). This course is an introduction to the Medieval English romance tradition from its beginning with Geoffrey of Monmouth to Malory's Morte d'Arthur.

ENL 4220. Renaissance Poetry and Prose (3). This course examines lyric poetry and prose from Wyatt and Spenser to Shakespeare and the metaphysicals: Donne, Herbert, Marvell, and Vaughan.

ENL 4230. Restoration and 18th-Century British Literature (3). This course studies British poetry and prose from 1660 to 1800.

ENL 4240. British Romantic Literature (3). This course studies British poetry and prose from 1785 to 1832.

ENL 4251. Victorian British Literature (3). This course studies British poetry and prose from 1830 to 1900.

ENL 4273. Modern British Literature (3). This course explores British poetry, fiction, and essays since 1900. Typically includes Hardy, Conrad, Joyce, Yeats, Lawrence, Woolf, Auden, and Lessing.

ENL 4311. Chaucer (3). This course focuses on the High Middle Ages in England seen through the perspective of the Canterbury Tales read in Middle English.

ENL 4333. Shakespeare (3). This course is a study of representative Shakespearean dramas and their relationship to the Renaissance. Typically may include attention to relevant contemporary intellectual, historical, and political movements.

ENL 4336. Orality and Poetics: Shakespeare's Sonnets (3). This course focuses on aspects of orality in Shakespeare's Sonnets, with some complementary work in theory, acoustics, and rhetoric. The course consists of explicit instruction in writing and presenting original critical talks with specific feedback on them, plus chances to incorporate that feedback in another oral presentation.

ENL 4341. Milton (3). This course focuses on Milton's life and works; emphasis on Lycidas, Paradise Lost, Paradise Regained, Samson Agonistes, and Milton's important libertarian prose.

HUM 3123. Irish Culture: An Introduction (3). This course introduces students to the rich traditions and culture of Ireland. The course acquaints students with the cultural factors that have shaped Ireland in general and Dublin in particular.

IDS 2160. The Tourist Trap: The Good, the Bad, and the Ugly (3). This course is designed to help students think critically about cultures with which they are familiar, to learn about cultures with which they are less familiar, and to navigate the complex ways they perceive and participate in and with multiple cultures. Through an exploration of travel writing, journalism, literature, film, and music, students explore, discuss, and respond to in writing questions about the good, the bad, and the ugly of tourism and tourists.

IDS 2194. The Immigrant Experience in Contemporary America (3). This course explores essential questions of the "immigrant experience" in contemporary American literature. Students engage a variety of texts, including novels, films, memoirs, essays and historical/documentary materials.

IDS 2335. Central American Cinema (3). This course gives an overview of Central American Cinema and provides the student with an opportunity to understand and apply basic film analysis tools as well as to understand the socio-political and cultural contexts under which films from six different countries of the region were produced. This course is taught in English.

IDS 2375. Third World Cinema (3). This course works from films that engage the third world to address how colonialism and postcolonialism are shaped and mediated through images and the gaze. The dynamics of colonial history motivate and shape colonial and postcolonial perceptions and influence their patterns of global circulation when the boundary between the world out there and the nation at home is increasingly blurred. This course also seeks to think about what kinds of responsibility we have for our involvement in politics elsewhere.

IDS 2394. Making Babies, Making Families: Adoption and Surrogacy in Literature, Film, and Public Debate (3). This course samples prominent cultural representations of adoption and surrogacy in recent literature and film and explores forms of public debates about these headline-grabbing issues.

IDS 2455. The Role of the Public Intellectual (3). This course examines the role of the public intellectual. Students read, discuss, and write about texts by, typically, George Orwell, Albert Camus, Susan Sontag, Camille Paglia, Greil Marcus, and Cornell West, in order to: (1) Encounter ideas to which they have not yet been exposed, (2) Become aware of their own heightened ability to work with big ideas and communicate them, and (3) Identify a road map for their own progress toward becoming a public intellectual.

IDS 2465. To Work, Learn, or Play? The Role of the Child in British Fiction 1830-1914 (3). This course focuses on the role of the child as demonstrated in 19th and early 20th century British fiction with child protagonists and on the social and cultural forces that shaped these depictions, such as the changing landscape of legislation governing child labor, orphanages, and education. Discussions of stories and novels about children are put into perspective by comparing them to poems, paintings, popular songs, magic lantern shows, and advertisements featuring child protagonists.

IDS 2673. Popular Music in Literature (3). This course surveys the literature and criticism concerning American popular music in the 20th and 21st centuries. The focus is on the relation between popular music and literature.

IDS 2676. Understanding America: Hemingway in a World of Discredited Values and Traditions (3). In this course, students investigate numerous cultural and political issues and defining moments in 20th-century America through the lenses of Hemingway biography, texts, and audience.

IDS 2680. Reading, Writing, and Speaking in the Digital Age (3). This course explores the implications of the digital revolution: what it means for the publishing industry, books, magazines, copyright, libraries, how we read and write, and how we organize ourselves as a society.

IDS 3457. The Reel Middle Ages: Medieval Literature and Film (3). This is a course about adaptation, medievalism, and the Middle Ages. Students examine a body of medieval texts in their literary and cultural contexts, analyzing their reception and re-interpretation through the contemporary medium of film. Students also learn about the theory and practice of film adaptation in general, and the transformation of medieval texts to film in particular.

LIN 3010. Introduction to Language Study (3). This course covers the relationship between meaning, form, and sound in language, including language acquisition, dialects, and grammar.

LIT 2000. Introduction to Literature (3). This course introduces students to key terminology, concepts, and methodologies for the study of complex literature. The course provides a groundwork in literary types for non-majors and is also strongly recommended as preparation for upper-level (3000- or 4000-level) coursework in the field.

LIT 2010. Introduction to Fiction (3). This course introduces students to such narrative elements as point of view, characterization, setting, theme, and symbolism in the works of longer prose fiction and provides an introduction to the basic interpretive skills necessary to conduct literary analysis.

LIT 2030. Introduction to Poetry (3). This course engages students in the art of understanding and analyzing poetry as a genre by looking closely and critically at the forms, themes, techniques, and devices in selected poems from a variety of historical periods.

LIT 2081. Contemporary Literature (3). This course covers poetry, fiction, drama from WWI to the present. For beginning students.

LIT 2230. Introduction to Global Literature in English (3). This course is an introduction to English-language literature from countries that were former British colonies in Africa, Asia, and the Caribbean.

LIT 3002. Topics in Genre and Form (3). A consideration of a representative selection of works relating to a theme, form, or literary genre.

LIT 3024. Perspectives on the Short Story (3). This course introduces students to the critical reading of short stories dating from the nineteenth through the twenty-first century. This course teaches students to identify tone, narration, form, theme, characterization, and other formal aspects of short fiction. Students are encouraged to formulate their own interpretation of the works read, based on their developing ability to recognize the decisions each author has made in constructing the text.

LIT 3043. Modern Drama (3). This course covers from O'Neill, Pirandello, Miller, and Theatre of the Absurd to the present.

LIT 3112. Understanding Literary History I (3). This course is a survey of literature composed in English from the Anglo-Saxon period to 1800, focusing on characteristics of artistic movements or social practices important to Anglophone literacy development in the British Isles and the New World.

LIT 3124. Understanding Literary History II (3). This course is a survey of literature from the 19th through the late 20th centuries. Special emphasis is given to close reading skills and to discussions of the overarching social and historical movements surrounding the assigned works.

LIT 3383. Women in Literature (3). In this course, students study texts that consider women's roles in society. The course focuses on women's gender roles and legal status during the Victorian period. What kinds of political and literary power did women have? What did women have to say about social and political matters? How did women use literary forms to communicate their arguments?

LIT 3438r. Literature and Medicine (3). This course studies how literary texts address questions in medical ethics and public health. Each topic examined is paired with a set of readings that addresses similar concerns in the contemporary setting. May be repeated to a maximum of nine semester hours.

LIT 4013r. Studies in the Novel (3). This course focuses on varying topics in the novel as a genre from the beginnings of print culture through the contemporary period, with attention to texts of diverse national origins from the major traditions of the genre. This course also includes attention to both the history and theory of the genre. Authors studied may include: Cervantes, Diderot, Sterne, Flaubert, Tolstoy, Bely, Kafka, Woolf, Tomasi di Lampedusa, and Garcia Marquez, among others. May be repeated when topics vary to a maximum of six semester hours.

LIT 4033. Modern Poetry (3). This course is an introductory analysis of techniques and meanings. Typically includes Whitman, Dickinson, Yeats, Frost, Stevens, Eliot, Auden, Thomas, and Plath.

LIT 4034. Postmodern and Contemporary Poetry (3). Prerequisites: ENC 1102 and ENC 1122 or equivalents. This course allows students to analyze themes and techniques associated with poetry in English from the end of World War II to the present. Poets studied typically include Olson, Ginsberg, Baraka, Clifton, Bishop, Lowell, Plath, Heaney, and Rich.

LIT 4044r. Readings in Dramatic Literature (3–6). This course covers specific topics in the study of British, American, or Continental drama. May be repeated to a maximum of six hours credit.

LIT 4093. Currents in Contemporary Literature (3). This course covers diverse, resurgent, and oppositional trends in literature since 1945; Mailer, Brautigan, Bellow, and others.

LIT 4184. Irish Literature (3). This course covers Synge, Yeats, Shaw, O'Casey, Joyce, Beckett, and others.

LIT 4205. Literature of Human Rights (3). This course is a study of literature in English and related materials relevant to the issue of human rights.

LIT 4233. Anglophone Postcolonial Literature (3). This course is an advanced study of literature written in English in former colonies in Africa, Asia, and the Caribbean.

LIT 4304. The Literary Expression of American Popular Culture (3). This course is an introductory course treating the wide variety of literary manifestations of American popular culture as reflections and symptoms of the concerns of modern American society.

LIT 4322. Folklore (3). This course is an introduction to myth, legend, tale, song, ballad, beliefs, and customs.

LIT 4329. African-American Folklore (3). This course provides an overview of the major forms of cultural expression developed by African-Americans. The focus will be on African-American folklore as a living tradition to be understood and interpreted.

LIT 4385. Major Women Writers (3). This course is an examination of selected works by significant women writers.

LIT 4514. Postcolonial Literatures and Feminisms (3). This course focuses upon literature and criticism about the status of women in former colonies.

LIT 4533. Feminisms: The Long 19th Century (3). This course introduces students to some of the key concepts of what is known as the "First Wave" of Feminist Theory in the 19th century.

LIT 4534. Early Feminisms (3). This course introduces students to key concepts, issues, and debates that shaped societal attitudes toward women prior to the emergence of "first wave feminism" in the later eighteenth and early nineteenth centuries. Topics may include women's education, rights to participate in the public sphere, roles in marriage, the nature of women's work, and women's right to citizenship.

LIT 4554. Feminist Theory (3). This course introduces students to the basic concepts and issues in feminist thought through reading some of the major feminist theorists.

LIT 4608. Law and Literature (3). In this course students study some of the most influential approaches to law and literature, with the aim of recognizing how issues of literary style, theory, and history compare to the areas of legal style, theory, and history.

LIT 4652. Middle Eastern Literature and Translation (3). This course explores English translations of various genres of literature written in the Middle East and offers a Middle Eastern perspective of the religious, cultural, economic, territorial, and geopolitical conflicts of the region. The course covers the use of theoretical languages and concepts from a broad spectrum of literary fields such as postcolonialism, religious studies, feminism, globalization studies, and area studies.

LIT 4852. Understanding Cultural Studies (3). This course introduces students to Cultural Studies as an academic Discipline and to examine the specific methodologies it employs in the study of literary and other cultural texts.

REA 1905r. Improving College-Level Reading (1–3). (S/U grade only.) This course is an individualized program of instruction in critical and comprehensive reading skills. Open to students from all levels and major areas. May be repeated to a maximum of three semester hours.

Graduate Courses

AML 5017r. Studies in U.S. Literature to 1875 (3).
AML 5027r. Studies in U.S. Literature Since 1875 (3).
AML 5267r. Studies in Literature of the American South (3).
AML 5296r. Studies in Multi-Ethnic Literature (3).
AML 5608r. Studies in the African-American Literary Tradition (3).
AML 5637r. Studies in Latino/a Literature in English (3).
CRW 5130r. Fiction Workshop (3).
CRW 5331r. Poetry Workshop (3).
CRW 5430r. Drama Workshop (3).
ENC 5216. Introduction to Editing and Publishing (3).
ENC 5217r. Topics in Editing (3–6).
ENC 5317r. Article and Essay Workshop (3).
ENC 5700. Theories of Composition (3).
ENC 5720. Research Methods in Rhetoric and Composition (3).
ENC 5945r. Internship in Editing (1–6). (S/U grade only.)
ENG 5009. Introduction to Advanced Studies in English (3).
ENG 5028. Rhetorical Theory and Practice (3).
ENG 5049r. Studies in Critical Theory (3).
ENG 5053. Studies in Textual Reception (3).
ENG 5068r. Studies in Language and Linguistics (3).
ENG 5079. Issues in Literary and Cultural Studies (3).
ENG 5138r. Studies in Film (3).
ENG 5801. Introduction to the History of Text Technologies (3).
ENG 5805. Studies in Textual Production (3).
ENG 5807. Studies in Textual Transformation (3).
ENG 5835r. Topics in Publishing (3–6).
ENG 5906r. Directed Individual Study (1–3). (S/U grade only.)
ENG 5933r. Topics in English (1–3).
ENG 5935r. Speakers in English Studies (1–3). (S/U grade only.)
ENG 5998r. Tutorial in English (1–3). (S/U grade only.)
ENG 6907r. Directed Readings (1–6).(S/U grade only.)
ENG 6939r. Seminar in English (3).
ENL 5206r. Studies in Old English Language and Literature (3).
ENL 5216r. Studies in Middle English Language and Literature (3).
ENL 5227r. Studies in Renaissance Literature (3).
ENL 5236r. Studies in Restoration and 18th-Century British Literature (3).
ENL 5246r. Studies in British Romantic Literature (3).
ENL 5256r. Studies in Victorian Literature (3).
ENL 5276r. Studies in 20th-Century British Literature (3).
LAE 5370. Teaching English in College (3).
LAE 5946. Teaching English as a Guided Study (3).
LAE 5948r. Supervised Teaching (0–5). (S/U grade only.)
LIT 5017r. Studies in Fiction (3).
LIT 5038r. Studies in Poetry (3).
LIT 5047r. Studies in Drama (3).
LIT 5186r. Studies in Irish and/or Scottish Literature (3).
LIT 5235r. Studies in Post-Colonial Literature in English (3).
LIT 5309r. Studies in Popular Culture (3).
LIT 5327r. Studies in Folklore (3).
LIT 5388r. Studies in Women's Writing (3).
LIT 5517r. Studies in Gender in Literature (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

ENGLISH EDUCATION:
see Middle and Secondary Education

Jim Moran College of ENTREPRENEURSHIP

Undergraduate Programs

Website: *http://jimmorancollege.fsu.edu*

Dean: Susan S. Fiorito; **Professors:** Fiorito, Kim, Schofield; **Associate Professor:** Clayton; **Assistant Professors:** Manchiraju, McQuerry; **Associate Lecturers:** Frazier, Garner, Langston, Parker, Steed; **Assistant Lecturers:** Baber, Breed, Garner, Griffin, Hackett, Hand, Lewis, McHaffie, McNees, Tatum, Whalen; **Instructional Specialists:** McLaughlin, Plant, Soto; **Jim Moran Professor:** Fiorito

The Jim Moran College of Entrepreneurship administers the undergraduate degree programs in Commercial and Retail Entrepreneurship.

The undergraduate majors in entrepreneurship are designed for those who want to learn more about opportunity recognition and evaluation, and new venture start-up and growth in various industries. Students admitted into these majors will participate in courses and seminars staffed by faculty members, as well as entrepreneurs and business owners/managers. Students will have opportunities to learn firsthand what is needed to start a new business venture, and to run an existing business.

The purpose of the Entrepreneurship majors is to give students the knowledge, skills, and confidence to start, run, and grow their own business.

Students who successfully complete the Entrepreneurship major receive a Bachelor of Science (BS) degree in entrepreneurship with a major in commercial entrepreneurship, or a Bachelor of Science (BS) degree in retail entrepreneurship.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Commercial and Retail Entrepreneurship satisfy this requirement by earning a grade of "C–" or higher in either ENT 3001, CTE 3055, or CGS 2100.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Entrepreneurship

1. ECO X013
2. ECO X023
3. MAC X233 or MAC 1105
4. STA X023 or STA X122 or QMB X100
5. LDR XXXX

Entrepreneurship Program Requirements

All students must complete: (1) the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*; (2) the state of Florida common prerequisites for entrepreneurship majors; (3) at least sixty semester hours of courses in non-business disciplines; and (4) the major area requirements for entrepreneurship majors.

Note: The Commercial and Retail entrepreneurship majors are limited access programs. The entrepreneurship majors are designed to take two years. Students are encouraged to apply for admission to the commercial or retail entrepreneurship majors in the Spring semester of their sophomore year. Students must apply to the Jim Moran College of Entrepreneurship (*http://jimmorancollege.fsu.edu*) before the announced deadline each Spring semester. Students must meet the admission requirements for the entrepreneurship programs in the Jim Moran College of Entrepreneurship by the end of their second year in order to be admitted into the major. These admission requirements are described in the "Jim Moran College of Entrepreneurship" chapter of this *General Bulletin*.

Jim Moran College Core Requirements

All Jim Moran College majors must complete the following eight courses. A grade of "C-" or better must be earned in each course.

ECO 3041 Personal Finance (3).
ENT 1940 Internship Prep for Entrepreneurs (0).
ENT 2000 Introduction to Entrepreneurship (3).
ENT 3XXX Social Entrepreneurship & Corporate Responsibility.
ENT 3451 Accounting Essentials for Entrepreneurs (3).
ENT 4114 Business Plan Design (3).
ENT 4122 Go To Market Strategies (3).
ENT 4943 Entrepreneurship Internship (3).

Commericial Entrepreneurship Major Requirements

All Commercial Entrepreneurship majors must complete the following thirty-six credit hours. A grade of "C-" or better must be earned in each course.

ENT 3001 Experiences in Entrepreneurship I (3).
ENT 3002 Experiences in Entrepreneurship II (3).
ENT 3111 Creating Value through Customer Acquisition (3).
ENT 3203 Managing Growth (3).
ENT 3414 Measuring Financial Success (3).
ENT 3629 Entrepreneurial Technologies (3).
OR
ENT 4811 Ecommerce (3).
OR
CTE 3055 Retail Computer Applications (3).
ENT 4110 Entrepreneurship Capstone Simulation (3).
ENT 4305 Legal and Ethical Environments for Entrepreneurs (3).
ENT 4255 Negotiations (3).
ENT 4604 New Product Development (3).

Plus at least six credit hours from the following list of courses:

CTE 3055 Computer Applications for Retail Entrepreneurship (3).
CTE 3416 Retail Technologies (3).
CTE 3431 Product Development (3).
CTE 3512 History of Dress (3).
CTE 3763 Design Principles and Analysis (3).
CTE 3806 Merchandising Principles (3).
CTE 3808 Consumers in a Complex Marketplace (3).
CTE 3835 Merchandise Presentation and Inventory Analysis (3).
CTE 3862 Retail Operations (3).
CTE 4443 Quality Assurance for Textiles and Apparel (4).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4605 Retail Supply Chain (3).
CTE 4707 International Topics in Design Industry (3).
CTE 4803r International Topics in Merchandising (3).
CTE 4812 Retail Branding (3).
CTE 4822 Quantitative Merchandise Management (3).
CTE 4826 Merchandising Buying (3).
CTE 4937 Special Topics in Retail (3).
ENT 2624 Enough to be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2630 Themed Experience (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3173 Franchising (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 3513 Market Solutions to Social Problems (3).
ENT 3635 Visualizing Environments
ENT 4227 Intrapreneuring (3).
ENT 4514 Measuring Social Impact (3).
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4811 Entrepreneurial E-Commerce Fundamentals (3).
ENT 4934r Special Topics in Entrepreneurship (1–3).

General Retail Requirements

All Retail Entrepreneurship majors must complete the following seven courses. A grade of "C-" or better must be earned in each course.

CTE 3806 Merchandising Principles (3).
CTE 3763 Product Analysis and Costing (3).
CTE 3055 Computer Applications for Retail Entrepreneurship (3).
CTE 1401 Introductory Textile Science (3).
CTE 4822 Quantitative Merchandising Management (3).
CTE 3808 Consumers in a Complex Marketplace (3).
CTE 3431 Product Development (3)

Track Requirements—Retail Merchandising

All **retail entrepreneurship** majors focusing on **retail merchandising** must complete twenty-one credit hours as listed below. A grade of "C-" or better must be earned in each course used to satisfy the retail entrepreneurship major area requirements.

CTE 3835 Merchandise Presentation and Inventory Analysis (3).
CTE 4605 Retail Supply Chain (3).
CTE 4812 Retail Branding (3).
CTE 4826 Merchandising Buying (3).

Plus at least three credit hours from the following list of courses:

CTE 3416 Retail Technologies (3).
CTE 3512 History of Dress (3).
CTE 3862 Retail Operations (3).
CTE 4443 Quality Assurance for Textiles and Apparel (4).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4707 International Design (3).
CTE 4803 International Merchandising (3).
CTE 4829 Global Sourcing (3).
CTE 4937 Special Topics (3).
ENT 2624 Enough to Be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2630 Themed Experience (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3111 Creating Value Through Customer Acquisition (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 3414 Measuring Financial Success (3).
ENT 3513 Market Solutions to Social Problems (3).
ENT 3607 Innovation by Design (3).
ENT 3629 Entrepreneurial Technologies (3).
ENT 3635 Visualizing Environments (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiations (3).
ENT 4514 Measuring Social Impact (3).
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).

Product Development

All **retail entrepreneurship** majors focusing on **product development** must complete twenty-one credit hours as listed below. A grade of "C-" or better must be earned in each course used to satisfy the retail entrepreneurship major area requirements.

CTE 3416 Retail Technologies (3).
CTE 4443 Quality Assurance for Textiles and Apparel (4).
CTE 4829 Global Sourcing (3).
CTE 4470 Sustainability and Human Rights in the Business World (3).

Plus at least three credit hours from the following list of courses:

CTE 3512 History of Dress (3).
CTE 3835 Merchandise Presentation and Inventory Analysis (3).
CTE 3862 Retail Operations (3).
CTE 4605 Retail Supply Chain (3).
CTE 4707 International Topics in Design Industry (3).

CTE 4803r International Topics in Merchandising (3).
CTE 4812 Retail Branding (3).
CTE 4826 Retail Buying (3).
CTE 4937r Special Topics (1-3).
ENT 2624 Enough to Be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2630 Themed Experience (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3111 Creating Value Through Customer Acquisition (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 3414 Measuring Financial Success (3).
ENT 3513 Market Solutions to Social Problems (3).
ENT 3607 Innovation by Design (3).
ENT 3629 Entrepreneurial Technologies (3).
ENT 3635 Visualizing Environments (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiations (3)
ENT 4514 Measuring Social Impact (3).
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4811 Retail Merchandising Planning Strategies (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).

Requirements for a Minor in Entrepreneurship

Any student who has been accepted to Florida State University is eligible to get a minor in Entrepreneurship. This is not a University degree program leading to a diploma. Students completing a minor through the Jim Moran College will gain knowledge about how to be entrepreneurial within various industries. Students interested in a minor in entrepreneurship must take a total of twelve hours in entrepreneurship as described below.

Commercial Entrepreneurship

ENT 2000 Introduction to Entrepreneurship (3).
ENT 3423 Funding Sources for Entrepreneurial Opportunities (3).
ENT 4014 New Venture Creation (3).

Plus one course from the following list of courses:

CTE 3512 History of Dress (3).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4937r Retail Special Topics (1-3).
ENT 2624 Enough to be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiation in Entrepreneurship (3)
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).
ENT 4943 Entrepreneurship Internship (3).

Computational Science Entrepreneurship

ENT 2000 Introduction to Entrepreneurship (3).
ISC 1057 Computational Thinking (3).
ISC 3275 Introduction to Game Design and Simulation (3) OR ISC 3313 Introduction to Scientific Computing (3).

Plus one course from the following list of courses:

CTE 3512 History of Dress (3).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4937r Retail Special Topics (1-3).
ENT 2624 Enough to be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiation in Entrepreneurship (3)
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).
ENT 4943 Entrepreneurship Internship (3).

Hospitality Entrepreneurship

ENT 2000 Introduction to Entrepreneurship (3).
HFT 1000 Introduction to Hospitality and Tourism (3).
HFT 3240 Managing Service Organizations (3).

Plus one course from the following list of courses:

CTE 3512 History of Dress (3).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4937r Retail Special Topics (1-3).
ENT 2624 Enough to be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiation in Entrepreneurship (3)
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).
ENT 4943 Entrepreneurship Internship (3).

Retail Operations

ENT 2000 Introduction to Entrepreneurship (3).
ENT 3862 Retail Operations (3).

Plus two courses from the following list of courses:

CTE 3806 Introduction to Merchandising (3).
CTE 3808 Consumers in a Complex Marketplace (3).
CTE 3835 Merchandise Presentation and Inventory Analysis (3).
CTE 4605 Retail Supply Chain (3).
CTE 4937r Retail Special Topics (1-3).
ENT 4934r Special Topics in Entrepreneurship (1-3).

Social Entrepreneurship

ENT 2000 Introduction to Entrepreneurship (3).
ENT 4504 Business Plan for Social Enterprises (3).
ISS 3241 Foundations of Social Entrepreneurship and Innovation (3).

Plus one course from the following list of courses:

CTE 3512 History of Dress (3).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4937r Retail Special Topics (1-3).
ENT 2624 Enough to be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiation in Entrepreneurship (3)
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).
ENT 4943 Entrepreneurship Internship (3).

STEM Entrepreneurship

ENT 2000 Introduction to Entrepreneurship (3).
ENT 2624 Enough to be Dangerous (3).

ENT 2XXX Survey of STEM (3).

Plus one course from the following list of courses:

CTE 3512 History of Dress (3).
CTE 4470 Sustainability and Human Rights in the Business World (3).
CTE 4937r Retail Special Topics (1-3).
ENT 2624 Enough to Be Dangerous: Impact Areas of STEM Commercialization (3).
ENT 2802 Entrepreneurship in Contemporary Society (3).
ENT 3173 Franchising (3).
ENT 3203 Managing Growth (3).
ENT 3273 Family Business (3).
ENT 3283 Women and Minorities in New Ventures (3).
ENT 4227 Intrapreneuring (3).
ENT 4255 Negotiation in Entrepreneurship (3)
ENT 4625 Music Entrepreneurship and Venture Incubation (3).
ENT 4804 The Psychology of Entrepreneurship (3).
ENT 4943 Entrepreneurship Internship (3).
ENT 4934r Special Topics in Entrepreneurship (1-3).

Definition of Prefix

CTE—Clothing and Textiles
ECO—Economics
ENT—Entrepreneurship
GEB—General Business
IDS—Interdisciplinary Studies
ISS—Interdisciplinary Social Sciences

Undergraduate Courses

Courses without a description still need to be developed.

CTE 1401. Introductory Textile Science (3). This course is an introduction to fibers, yarns, fabric structures, coloration, and finishes related to performance, selection, and care. It includes laboratory experience in the identification and analysis of fibers, yarns, fabrics, finishes, and textile coloration.

CTE 2800. Textile, Apparel, and Retail Analysis (3). This course offers an overview of the textile, apparel, retail, and support services industries and the career opportunities available within these industries. The nature, scope, and structure of each segment of each industry in the domestic and international marketplace is analyzed.

CTE 3055. Computer Applications for Retail Entrepreneurship (3). This course covers computer and digital technology skills for retail entrepreneurship students that prepares them for the textile and apparel industry. Students demonstrate these skills by creating a word document, spreadsheets and fashion design projects.

CTE 3201. Design Elements and Principles (3). This course is an introduction to design as process and product: with applications in functional, structural, and decorative design; optical illusions; art elements and principles; design analysis.

CTE 3416. Retail Technologies (3). Prerequisite: CTE 3055. This course explores several technologies that are utilized in the retail industry. Students are introduced to four new technologies: digital textile printing, body scanning, 3D printing and Virtual Reality. These technologies are explored through a retail lens.

CTE 3431. Product Development (3). Prerequisites: CTE 1401 (C- or better) and CTE 3763 (C- or better). This course introduces students to the processes of apparel product development including forecasting, color and fabric management, garment styling and line development, concept to product processes, developing the brand, business planning and creative development.

CTE 3512. History of Dress (3). This course explores the development of Western dress from the 15th century to the present as a reflection of socio-cultural factors including cultural values, ethnicity, gender, class, art, customs, economy, politics, religion, geography, and technology.

CTE 3763. Design Principles and Analysis (3). Prerequisite: CTE 1401C. This course is an introduction to design as process and product: with applications of functional, structural, and decorative design; design elements and principles. This course also offers an assessment of the production of ready-to-wear apparel and the method for evaluating its quality. The resulting body of knowledge and related vocabulary are important tools for anyone pursuing a career in the apparel industry.

CTE 3806. Merchandising Principles (3). This course is an overview of businesses that design, produce, distribute, and sell fashion and basic goods. Theoretical foundations and practical application of the principles of retail merchandising.

CTE 3808. Consumers in a Complex Marketplace (3). This course explores the decision making behavior of consumers in a complex and diverse marketplace, including consumer rights and responsibilities.

CTE 3809. Trend Analysis and Forecasting (3). Prerequisites: CTE 2800, ECO 2013, and ECO 2023. Corequisite: CTE 3806. This course explores the process and methods of trend analysis and fashion forecasting with a dual focus on both consumer and business aspects.

CTE 3835. Merchandise Presentation and Inventory Analysis (3). Prerequisites: A grade of "C" or better in ACG 2021, CGS 2060 or CGS 2100, CTE 3806, ECO 2013, ECO 2023, and MAC 1105 or MGF 1106. This course is an analysis of consumer trends, inventory needs, and merchandise presentation methods to drive a business from a store and buying perspective using visual merchandising methods, current inventory analysis software, retail store reports, and the Macy's Merchandising Laboratory.

CTE 3862. Retail Operations (3). This course addresses a variety of topics including financial requirements, location strategy and selection, hiring and staffing, information systems and supply chain, creating an inventory plan, vendor selection and negotiations, buying the merchandise, and managing the store.

CTE 3881r. Elective Internship in Retail, Merchandising and Product Development (3–6). (S/U grade only.) Prerequisites: CTE 1401C, CTE 2800, and CTE 3806. This elective course introduces students to a hands-on approach to basic retail merchandising (prior to the intern block) in the following areas: selling, merchandising, product knowledge, inventory control and management.

CTE 4443. Quality Assurance for Textiles and Apparel (4). Prerequisite: CTE 1401C. This course offers an evaluation of textile materials for specific end users, industry compliance, certified performance, and government standards.

CTE 4605. Retail Supply Chain (3). Prerequisite: ENT 4122. This course provides students with knowledge of the global retail supply chain from raw materials to the consumer.

CTE 4470. Sustainability and Human Rights in the Business World (3). This course provides an overview of social responsibility, human rights, and sustainability, and it identifies strategies and frameworks to apply to socially-responsible and sustainable business. This course also explores the roles of the consumer, corporation, and government and non-governmental organizations.

CTE 4707. International Topics in Design Industry (3). Prerequisite: CTE 1401C, CTE 3201, and CTE 3806. This course offers an in-depth study of designers and of the design industry in international sites. Students gain a perspective on the influence of fashion on economic, social, artistic, and global culture.

CTE 4803r. International Topics in Merchandising (3). Prerequisite: CTE 3806. This course is the study of current practices and technology in merchandising in an international setting. The course requires students to travel to and live at international sites at their own expense. May be repeated to a maximum of nine semester hours.

CTE 4811. Retail Merchandising Planning Strategies (3). Prerequisites: Senior standing, a 2.50 GPA, as well as a grade of "C" or better in CTE 3835, CTE 4822, and MAR 3023. Corequisites: CTE 4826 and CTE 4882. This course provides an overview of strategic planning as a framework for retail-firm analysis. Through the completion of retail-store business plans, students hone their leadership, negotiation, and interpersonal skills.

CTE 4812. Retail Branding (3). This course builds a foundation for retail branding. Students investigate the importance of a retailer's brand with respect to customer loyalty, differentiation from competitors, sales growth, and profitability. The focus includes analyzing strategies for the pricing, promotion, merchandising, and product packaging of a retailer's brand(s). Students are assigned a retailer to analyze their retail branding efforts.

CTE 4822. Quantitative Merchandising Management (3). Prerequisites: Major status within the Jim Moran School of Entrepreneurship. This course examines and applies the principles of effective merchandising management through mathematical procedures.

CTE 4826. Merchandising Buying (3). Prerequisites: A 2.50 GPA as well as a grade of "C" or better in CTE 3835, CTE 4822, and MAR 3023. Corequisites: CTE 4811, CTE 4866, and CTE 4882. This course examines techniques and theories of retail buying, concentrating on buying functions, and the strategic role of the buyer in retail management. This course is part of the intern block for merchandising majors only.

CTE 4829. Global Sourcing (3). Prerequisites: CTE 3806, ECO 2013, and ECO 2023. This course covers global trade, trade practice and theories, as well as the global sourcing related to the textile, apparel, and retail industries.

CTE 4866. Executive Perspectives on Retail Management (3). Prerequisites: CTE 3835, CTE 4822, and MAR 3023. Corequisites: CTE 4811, CTE 4826, and

CTE 4882. Professional Internship (6). (S/U grade only.) Prerequisites: Major status, CTE 4811, CTE 4826, and CTE 4866. This internship in a retail setting allows students to understand merchandising functions through management, buying, or product development. Both professional development and career preparation are emphasized.

CTE 4905r. Directed Individual Study (1–6). Prerequisite: A 2.50 GPA. May be repeated to a maximum of six semester hours.

CTE 4937r. Special Topics (1–3). This course is an analysis of current issues and practices in the industry of retail and entrepreneurship. May be repeated to a maximum of twelve (12) credit hours; repeatable within the same term.

CTE 4970r. Honors Work (1–6). This course provides qualified, upper-division majors in textiles and consumer sciences an opportunity to undertake an independent and original research project in their particular area of interest. May be repeated to a maximum of nine semester hours. A minimum of two semesters is required to complete an honors project.

ECO 3041. Personal Finance (3). This course is designed to help students better understand personal finance, and provide them with the tools to make better choices and live a more fulfilling life.

ENT 1021r. Entrepreneurship and Innovation Learning Community Colloquium (1). (S/U grade only.) Prerequisite: Must be enrolled in the Entrepreneurship and Innovation Learning Community. This course is designed to immerse students in entrepreneurship and innovation at FSU and expose them to the university's areas of entrepreneurial focus. Through speakers, coursework, and visits to businesses and places of interest in the Tallahassee community, students are encouraged to explore their own interests and ideas and look for ways to solve problems and develop a project based on these interests.

ENT 1940. Internship Prep for Entrepreneurs (0). (S/U grade only.) This course prepares students for the challenges of preparing for the interview process, as well as transitioning into an internship. This course focuses on various types of interviews, including Skype and phone interviews. This course addresses the importance of professionalism, leadership, proper dress attire, initiating conversations, and other important issues students must be aware of.

ENT 2000. Introduction to Entrepreneurship (3). This course exposes students to the knowledge and skills required to be a successful entrepreneur. Topics include challenges of entrepreneurship, marketing and financial concerns, and management issues.

ENT 2624. Enough to be Dangerous: Impact Areas of STEM Commercialization (3). This course educates students about STEM commercialization, startups and technology transfer in a manner that equips them with knowledge "enough to be dangerous" in the real-world career setting. The course consists of classroom sessions as well as visits to local startups, small to medium businesses, research labs and other key players in the local area that exemplify the Impact Areas of STEM commercialization.

ENT 2630. The Themed Experience (3). This course provides a broad overview of the creation and concepts that drive the themed experience. Students discuss historical themed spaces and current industry trends in retail venues, theme parks to formal gardens, instillation art and theatrical venues. Students gain understanding of storytelling through designed placemaking.

ENT 2802. Entrepreneurship and Contemporary Society (3). This course explores entrepreneurship in society by understanding how innovation can lead to commerce and how commerce impacts our daily lives. Topics include the process of innovation, the nature of entrepreneurialism, the essence of Problem-Opportunity-Venture-Operations (POVO) model, the lean start-up business model, different kinds of entrepreneurship (commercial, social, scientific, and artistic), and an introduction to competencies that have facilitated success in other entrepreneurs.

ENT 3001. Experiences in Entrepreneurship I (3). Prerequisite: Must be an Entrepreneurship major. In this course, students focus on the most current thoughts, ideas, and industry practices relevant to entrepreneurship. The course provides an understanding of start-up and how to grow one's firm as well as providing a hands on experience for a variety of topics all which are relevant to the student's success as an entrepreneur.

ENT 3002. Experiences in Entrepreneurship II (3). In this course, students focus on the most current thought, ideas, and industry practices relevant to entrepreneurship. The course provides an understanding of their business strengths and how to grow one's firm as well as providing a hands on experience for a variety of topics, all which are relevant to the student's success as an entrepreneur.

ENT 3111. Creating Value Through Customer Acquisition (3). Must be a major within the Jim Moran School of Entrepreneurship. This course builds a foundation in marketing and sales for entrepreneurs to be successful. Students focus on Marketing Strategy, the four Ps of Marketing, Creating Sales Strategy, and Tactics for Making the Sale.

ENT 3173. Franchising (3). This course focuses on the special role of franchising as a form of entrepreneurship in the U.S. and international economies. Topics include success rates of franchisors and franchisees, advantages and disadvantages of franchising for both franchisors and franchisees, the process of franchising a business idea, and the process of selecting and working with a franchisor.

ENT 3203. Managing Growth (3). Prerequisite: ENT 3003. This course addresses the management of rapidly growing entrepreneurial firms. Topics include building an infrastructure, planning stage financing, managing under adversity, and managing a business with rapid growth.

ENT 3273. Family Business (3). This course covers special issues facing entrepreneurial and family businesses: choice of organizational form, business planning, tax and compensation planning, business valuation, and succession strategies. Time is also devoted to the unique challenges often found in family business context, such as dealing with family conflicts, how to motivate and evaluate employees when a mix of family and non-members are involved, and planning for succession.

ENT 3283. Women and Minorities in New Ventures (3). This course focuses on the emergence and current impact of women- and minority-owned businesses. The course also considers special challenges and opportunities that women and minority entrepreneurs confront. Course may include discussions with successful women and minority business owners.

ENT 3414. Measuring Financial Success (3). Prerequisite: ENT 3451. This course provides students with a survey of the techniques and managerial tasks associated with developing and executing the financial reporting requirements needed for the management and financing of an entrepreneurial growth business from inception to financial scale.

ENT 3423. Funding Sources for Entrepreneurial Opportunities (3). Prerequisite: ENT 3003. This course introduces future entrepreneurs to the concept of financial thinking by utilizing tools and techniques which have been adapted for use in the realm of entrepreneurship. It is designed to inform students of various techniques of obtaining financing for new enterprises and to maximize the financial potential of their existing and is structured to train students in the financial management of entrepreneurial firms. As most are small growing firms, understanding finance requires an understanding of marketing, management, and planning functions of these firms.

ENT 3451. Accounting Essentials for Entrepreneurs (3). This course introduces students to the role of managerial and financial accounting within the business environment. Students learn accounting terminology, elements of financial statements, the accounting cycle and the basics of preparing and interpreting financial statements. The course covers accounting concepts applicable to service companies and merchandising businesses, and includes business cases where the concepts will be put into practice to develop critical thinking to assist in decision making.

ENT 3513. Market Solutions to Social Problems (3). This course introduces Social Entrepreneurship, a movement that uses commerce to positively impact/solve social problems. This course is designed to inform students of the world's largest social problems, how to identify social problems, and begin the ideation process in the development of social enterprise.

ENT 3607. Innovation by Design (3). This course teaches methods common to human-centered innovation frameworks such as Design Thinking: empathizing, framing and reframing problems, ideating, prototyping and testing solutions. Students learn the process of developing products, services, systems and other solutions from the initial discovery of needs, to presenting a tested solution ready for deployment.

ENT 3613. Innovation and Creativity (3). Prerequisites: ENT 3003 and MAN 3025. This course covers the quest for ideas that lead to true innovation of a product, service or process, with the courage to create, with risks of failure or mistakes by the student. Solving problems in an environment of uncertainty and dynamic change. Creativity is the central focus. Students are challenged to demonstrate true entrepreneurial thinking; taking ideas and concepts where none has been before. Students experience what it means to fully engage with the patterns that produce breakthrough ideas. Students are exposed to a systematic approach to changing the way you create, identify and sell these ideas. In addition, students are introduced to a number of techniques, concepts and methods that can be added to the students' creative skills toolkit.

ENT 3629. Entrepreneurial Technologies (3). This course gives the opportunity to critically assess current and emerging technologies. Students learn a defined process for efficiently and effectively coming up to speed on new technologies and how to think critically about the economic potential, societal impact, and ethical consideration of new technologies.

ENT 3635. Visualizing Environments (3). Prerequisites: ENT 2630 or ENT 3607. This course teaches the fundamentals of virtual place-making. Students learn industry standard tools for visualizing and creating interactive environments. The course introduces digital visualization as a predominant tool in the design and realization of environments where people work and play, such as themed, retail, work and a variety of service related spaces. This course takes students through the steps of creating two-dimensional digital textures and images and the creation of simple computer models and building three dimensional interactive environments that can be experienced with virtual reality tools.

ENT 4104. Creating New Ventures I: Opportunity Recognition and Market Feasibility (3). Prerequisites: ENT 3003 and ENT 3423. This course familiarizes students with the components and purpose of the business plan. This course aids students in understanding the structure and content of a business plan, including the reasons for the organizations and substance of the work. The course guides participants in preparing their own business plan.

ENT 4110. Entrepreneurship Capstone Simulation (3). Prerequisites: ENT 3111, ENT 3414, and ENT 4305. This course gives students the opportunity to run their own business in a simulated business environment.

ENT 4114. Business Plan Design (3). Prerequisite: ENT 2000. This course helps students appreciate the purposes of the business plan and its potential audience. The course also aids student in understanding the structure and content of a business plan, including the reasons for the organization and substance of the work. The course guides participants in preparing their own business plan and aids them in its critical evaluations.

ENT 4122. Go To Market Strategies (3). Prerequisite: ENT 3003. This course explores the different ways that new ventures can efficiently and effectively market and sell their products and services to customers. The course focuses on maximizing revenues in the early days of the venture while simultaneously managing costs associated with different delivery channels.

ENT 4127. Entrepreneurial Strategy (3). Prerequisite: ENT 3414 or ENT 3451. This course develops students' analytical skills by learning primary strategy concepts, tools, models, and techniques, and applying them to real-world business situations. Through this course, students develop an ability to think strategically about the choices facing an emerging, growing, or established venture, including value propositions, multifaceted decision-making, changing market patterns, competitive positioning, leadership, and entrepreneurial competencies of the organization.

ENT 4227. Intrapreneuring (3). The course provides the budding innovator with a picture of the innovation's architecture along with insights into what makes a great idea blossom or wither and die. The course equips students with the high-level framework and tools necessary to innovate from within, to be an intrapreneur, working within an institution or business to lead change. This course introduces the techniques and tools necessary to develop innovative ideas within these type of organizational environments.

ENT 4305. Legal and Ethical Environments for Entrepreneurs (3). This course exposes students to the various stages of starting a business--from start-up and growth to an initial public offering--while highlighting the legal preparations and pitfalls that go along with them. Students become familiar with the essentials of leaving your job, competing with a former employer, contract law, and bankruptcy, as well as the most current issues like clean energy, e-commerce, ethics, and sustainability in the entrepreneurship environment.

ENT 4505. Survey of Social Enterprise Finance (3). This course introduces students to different startup capital sources, how to secure capital, how to develop a sustainable double/triple bottom line, and how to maximize social impact.

ENT 4514. Measuring Social Impact (3). Prerequisite: ENT 3513. This course introduces students to an overview of various methodologies used to evaluate the social impact generated by for-profit and nonprofit entities. Students develop a clear understanding of the four methods for measuring social impact: Expected Return; Theory of Change, Mission Alignment Methods, and Experimental and Quasi-Experimental Methods.

ENT 4604 New Product Development (3). Prerequisite: ENT 3111. This course builds a foundation in new product development. Students create a new consumer brand including name, logo, product features, product package, labeling, recommended retail price and estimated cost of goods. Students work in product teams of 3–4 people and will pitch their new brand/product(s) at the end of the course. Students also work individually to develop a new product brief for a product line extension and a brand extension.

ENT 4625. Music Entrepreneurship and Venture Incubation (3). Prerequisite: ENT 3003. This course builds a foundation in music industry entrepreneurship.

ENT 4804. The Psychology of Entrepreneurship (3). Prerequisites: STA 2023 and PSY 2012. The psychology of entrepreneurship helps students understand the successful entrepreneur from various aspects--economic, social, personal, and societal. This course covers various aspects of the psychology of entrepreneurship that mimics the broad research streams of psychology (e.g., cognitive, personality, and positive psychology among others).

ENT 4811. Entrepreneurial E-Commerce Fundamentals (3). Prerequisites: CGS 2060, CTE 3055, and ENT 3001. This course focuses primarily on the most current thought, trends, and industry tools relevant to e-commerce. Students explore the dynamic field of electronic commerce and what role it plays in an organization's "omnichannel" approach as well as leading B2B and B2C e-commerce solutions. This course gives a modern entrepreneur the base set of knowledge and tools to build an ecommerce presence.

ENT 4900r. Directed Independent Study (1–3). May be repeated to a maximum of nine semester hours.

ENT 4934r. Special Topics in Entrepreneurship (1–3). Prerequisites: ENT 2010, ENT 2011, and ENT 3003. This course allows students to learn about special topics in entrepreneurship that are not taught as part of the regular major or certificate programs in entrepreneurship. Special topics may include: environmental entrepreneurship, managing high growth, venture and angel capital, international entrepreneurship, and creativity in opportunity recognition. This course is repeatable to a maximum of six semester hours, as topics vary.

ENT 4943. Entrepreneurship Internship (3). (S/U grade only.) Prerequisite: ENT 1940. This course is designed to provide an experiential learning lab on how to perform business research and to apply that research to the Internship Sponsor. Students learn basic competitive intelligence techniques and utilize critical thinking skills to synthesize data and intelligence into a presentation that will provide a useful and practical result to the Internship Sponsor. These techniques can be applied to a wide range of industries.

ENT 4991r. Honors Thesis (3). This course is for students who wish to receive honors in the major by working on an honors thesis of project. This course may be repeated for a maximum of six credit hours.

FOS 4209. Food Safety and Regulations (3). Prerequisites: HUN 1201 and FOS 3026 or departmental permission. In this course, topics include food spoilage and food poisoning, food-borne pathogens, food laws and regulations, HACCP, and safe food handler practices, with an emphasis on current issues related to the quality and safety of food.

IDS 2128. The Lean Machine: The 21st Century Entrepreneur (3). This course explores entrepreneurship from antiquity to contemporary society. In particular, the course examines how contemporary entrepreneurship is undergoing a fundamental shift towards a powerful new kind of consumer called the "prosumer." Additionally this course seeks to explore how innovation and lean concepts are leading to successful commerce and how that commerce impacts culture and daily lives.

IDS 2494. Creating Experiences (3). This course will delve deeply into themed and immersive entertainment and other experiences, providing students an opportunity to see the creative possibilities through different forms of expression. Students will explore Experiential Design, from large-scale highly themed experiences, such as a museum visit or theme park trip, to everyday interactions, such as stop at a coffee shop or gym.

ISS 4931r. Special Topics (1–3). May be repeated with the permission of the Director of the Interdisciplinary Program in Social Science to a maximum of eighteen semester hours.

Graduate Courses

COA 5471. Sustainability and Human Rights in the Business World (3).
COA 5400. Consumers in a Complex Marketplace (3).
COA 5906r. Directed Individual Study (1–3). (S/U grade only.)
CTE 5125. Design Thinking (3).
CTE 5444. Quality Assurance Assessment (3).
CTE 5445. Textile Technologies (3).
CTE 5471. Sustainability and Human Rights in the Business World (3).
CTE 5807. Retail Merchandising Concepts (2–4).
CTE 5815. Retail Technologies (3).
CTE 5816. Merchandising Organization (3).
CTE 5828. Merchandising Buying (3).
CTE 5834. Merchandising Theory and Research (3).
CTE 5847. Retail Branding and Promotion (3).
CTE 5884. Advanced Fashion Merchandising Practicum (6). (S/U grade only.)
CTE 5906r. Directed Individual Study (1–3).
CTE 5911. Research Analysis in Clothing and Textiles (3).
CTE 5912r. Supervised Research (1–3). (S/U grade only.)
CTE 5930r. Clothing and Textiles Seminar (1).
CTE 5935r. Special Topics (1-6).
CTE 5942r. Supervised Teaching (1–3). (S/U grade only.)
CTE 6436. Product Innovation and Management (3).
CTE 6936r. Special Topics in Clothing/Textiles/ Merchandising (3).
ENT 5216. Foundations of Entrepreneurship and Leadership (3).
ENT 5627. Healthcare Innovation and Medical Entrepreneurship (3).
ENT 5901r. Directed Independent Study in Entrepreneurship (1–6).

Undergraduate Department of FAMILY AND CHILD SCIENCES

College of Human Sciences

Website: *https://humansciences.fsu.edu/family-child-sciences/*
Interim Chair: Ray; **Assistant Department Chair:** Greene; **Eminent Scholar and Professor:** Fincham; **Norejane Hendrickson Professor:** Grzywacz; **Professors:** Cui, Krantz, McWey, Ralston; **Associate Professors:** Gazelle, Rehm; **Assistant Professors:** Gonzales-Backen, Kimmes, Ledermann, Parker, Wu; **Teaching Faculty:** Diop, Greene, Harris, Holcomb, Jeter, Scott, Wilson; **Director of the Center for Couples and Family Therapy:** Greene; **Executive Director of Florida Center for Prevention Research:** Wilson; **Practicum Coordinator:** Jeter; **Research Specialists:** Denis-Luque, Marin, May, Trejo; **Cross Appointments:** Goldfarb (FSU College of Medicine), Mason (Boys Town), Turner (FSU College of Medicine); **Professors Emeriti:** Cornille, Darling, Greenwood, Hansen-Gandy, Hicks, Lee, A. Mullis, R. Mullis, Pasley, Pestle, Rapp, Readdick, Zongker

The Department of Family and Child Sciences offers one undergraduate degree program in family and child sciences which requires maintaining minimum grades in major courses for graduation.

The program provides an understanding of child development and family relationships across the life span. We emphasize the diversity of families and how children and families influence, and are influenced by, the broader environment (e.g., schools, communities, workplace, society at large) and change over time. Students learn to apply this knowledge about children and families in working with them through an extensive practicum experience. These experiences occur in a variety of human service agencies and organizations, educational settings, child care centers, and child and family advocacy organizations. Students also gain skills in developing and implementing programs designed to strengthen individuals and families. There is a series of courses that provides the necessary background to apply for certification from the National Council on Family Relations to become a Certified Family Life Educator (CFLE). It does **not** lead to teacher certification in Florida.

Students must complete the **human sciences core requirement** (successful completion of at least three semester hours offered by the College of Human Sciences, but outside the department), **five prerequisite courses to the major**, a **minor or an approved area of concentration** in an allied field, and a **150-hour practicum** experience. Students must achieve at least a "C–" in the human sciences core requirement, and at least a "B–" in the five required prerequisite courses which are: CHD 2220, CHD 3243, FAD 2230, FAD 3343, and STA 2XXX. Additionally, students must have a 2.75 GPA or higher prior to being accepted into upper-division in Family and Child Sciences. Individuals who apply for the major but who have not met the prerequisite requirements are classified as Prerequisite Incomplete (PI) and cannot enroll in upper-division courses required for the major until prerequisite courses are successfully completed. All courses attempted for the Family and Child Sciences major must be taken for a letter grade. No courses taken for Satisfactory or Unsatisfactory (S/U) or for Pass or Fail (P/F) can be counted toward the degree. Students are allowed a maximum of two attempts in two of the five courses to achieve the minimum required final grade (B–). If the "B–" is not made in three or more of the courses in the first attempt or the "B–" is not made in the second attempt, then the student is dismissed from the major. Courses selected for the area of concentration cannot also be used to fulfill liberal studies requirements. Students must obtain at least a "B–" in the practicum course FAD 4805. The minimum grade required in other courses beyond the prerequisite courses and the practicum experience is "C–".

Curriculum guides stating specific degree requirements for the undergraduate majors are available through the Department of Family and Child Sciences and through our Web site, *https://humansciences.fsu.edu/family-child-sciences/*.

Minor

A minor in child development may be earned by completing twelve semester hours in family and child sciences with a grade of "C–" or better in each of the required courses: CHD 2220, CHD 3243, FAD 2230, and FAD 3343. At least nine credit hours must be completed at Florida State University; no more than one substitution for these courses is permitted.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in family and child sciences satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100. This requirement may also be satisfied through CHM 1045L, BSC 2010L, or another FSU course with an approved computer competency component.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Family and ChildREN Sciences

1. CHD X220
2. FAD X230
3. FAD X220
4. STA X013 or STA X014 or STA X021 or STA X022 or STA X023

Note: Courses are offered in Summer Sessions A, B, and/or C to accommodate transfer students who enroll in the University and our major in the Summer. Thus, when Fall semester begins, these students can enroll in the other required courses for which these courses are prerequisites. Students who enroll in the Fall can take these courses and those required as part of the "area of concentration" during the semester. Following this, there is ample time to complete the remaining 120 credit hours.

Honors in the Major

The Department of Family and Child Sciences offers a program in honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Graduate Study

The Department of Family and Child Sciences offers graduate programs leading to the Master of Science (MS) degree in family and child sciences, the Doctor of Philosophy (PhD) degree in human sciences with specialization in human development and family science, and a Doctor of Philosophy (PhD) degree in marriage and family therapy. For further information relating to graduate coursework and thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Definition of Prefixes

CHD—Child Development
FAD—Family Development
HEE—Home Economics Education
HOE—Home Economics: General
IDS—Interdisciplinary Studies

Undergraduate Courses

CHD 2220r. Child Growth and Development: The Foundation Years (3). This course is the study of children from birth through middle childhood.

CHD 3243. Contexts of Adolescent Development (3). This course examines the developmental process related to cognitive, physical, and psychosocial growth from pre- to late adolescence and the reciprocal influences of various contexts in which these youths are embedded, such as families, peer groups, schools, and communities. It is encouraged that students take CHD 2220 prior to enrollment.

CHD 3472. Child Guidance (3). Prerequisite: Major status. This course allows students to learn principles of positive guidance to apply in guiding children during early childhood, middle childhood, and adolescence in a variety of natural contexts, including home and school.

CHD 4250. Middle Childhood Contexts (3). Prerequisites: Major status and junior standing. This course has been designed to examine developmental processes of school-age children and adolescents. This course is a prerequisite course for practical experiences with these age groups. Consequently, strategies for working with school-age children and adolescents are also addressed.

CHD 4251. Adolescent Contexts (3). Prerequisites: Major status and junior standing. This course provides a basic understanding of adolescent development as it relates to human growth development and learning through a multi-disciplinary perspective. Biological, cognitive, and psychosocial tasks of adolescence within contexts such as family, peer group, school, community, culture, and other learning environments are examined.

CHD 4537. Parenting (3). Prerequisites: CHD 2220, FAD 2230, FAD 3343, and CHD 3243. This course is a comprehensive review of the contemporary theory and research in parenting. This course is organized developmentally, focusing on the emerging needs, responsibilities, and skills required by parents at progressive stages of their children's development.

CHD 4615. Public Policy: Child and Family Issues (3). Prerequisite: FAD 2230 and FAD 3220. This course provides an overview of theory and implementation of public policies relating to children and families at the state and federal levels. Students explore ways that families contribute to and are affected by social problems, and how families can be involved in policy solutions. Students learn about roles professionals can play in building and interacting with family policy.

CHD 4630. Methods of Studying Families and Children (3). Prerequisite: Admission to the major. This course examines research methods, concepts, principles, and issues in studying families and children.

CHD 4905r. Directed Individual Study in Child Development (1–3). May be repeated to a maximum of nine semester hours.

CHD 4944r. Internship in Family and Child Sciences (1–12). (S/U grade only.) Prerequisite: FAD 4805 or instructor permission. This course consists of supervised practical experiences in various professional settings serving children, youth, and families, including hospitals, education faculties, human service agencies, and government agencies. May be repeated to a maximum of twelve semester hours. Child development majors only.

FAD 2230. Family Relationships: A Life Span Development Approach (3). This course examines the dynamics of contemporary family life and interpersonal relationships in a changing society and over the life course.

FAD 3220. Individual and Family Life Span Development (3). This course devotes attention to all stages of human development and the aging process. For students to fully understand human behavior, the development issues of an individual at all ages must be understood, including the influence of various social, cultural, and environmental contexts. Students become familiar with development from the prenatal period through end of life.

FAD 3271. Ecological Contexts for Individual and Family Development (3). This course is an introduction to the overarching theoretical frameworks, providing a basis for understanding individual and family development. This course serves as a foundation for all major courses.

FAD 3343. Contexts of Adult Development and Aging (3). This course provides students with a critical understanding of both the theoretical and the interdisciplinary nature of aging, the aging process (physical, cognitive, social-emotional), and challenges of adulthood as a period of the lifespan. Further, this course focuses on critical issues in aging while strategically focusing on writing and communicating aging issues for the Human Sciences field.

FAD 3432. Stress and Resilience in Individuals and Families (3). Prerequisite: Major status or instructor permission. This course provides undergraduate majors with an introduction to family-based, stress-focused mini-theories. The course provides a framework for understanding the differences between family patterns when families are centered on growth related themes and when they are pre-occupied with a variety of stressor events.

FAD 4265. Family Diversity (3). Prerequisite: CHD 2220, FAD 2230, FAD 3343, and CHD 3243. This course is designed to expose students to the diversity of families by race, ethnicity, social class, and structures in an ego-systemic context.

FAD 4451. Human Sexuality Education (3). This course examines sexuality through the lifespan regarding relationship issues and health concerns and provides training for professionals and parents in sexuality education.

FAD 4455. Family Life Education (3). This course provides information and techniques needed to facilitate and evaluate home, school, and community relations through the lifespan.

FAD 4601. Foundations of Counseling (3). Prerequisites: Senior standing and instructor permission. This course discusses basic counseling skills for persons who, by nature of their work, are called upon to provide counseling. May be taken for graduate credit.

FAD 4805. Practicum in Family and Child Science (6). Prerequisites: Major status, at least four additional major courses, and FAD 4932 (completed the semester before enrolling in FAD 4805). This course is designed to provide students with experiences in a community setting serving children, youth, and families and the opportunity to apply course material to the work environment.

FAD 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of nine semester hours.

FAD 4910r. Honors Work (3–6). Prerequisites: Upper division students with an overall GPA of 3.5; instructor permission. This course provides upper-division students with an opportunity to undertake an independent and original research project in their particular area of interest. May be repeated to a maximum of six semester hours.

FAD 4932. Pre-Professional Development (1). Prerequisites: Major status and senior standing. This course is designed to expose students to career opportunities in FCS and professional/ethical behavior and to prepare them for placement in agencies/organizations serving individuals and families.

FAD 4936r. Special Topics: Family or Housing (3–9). Prerequisite: Instructor permission. In this course, each topic may be taken only once. May be repeated to a maximum of nine semester hours.

HEE 4912r. Honors Work (3). This course is open to upper-division majors with an overall grade point average of 3.2 and consent of instructor. May be repeated to a maximum of six semester hours.

IDS 2341. Relationship Status: It's Complicated. Understanding and Influencing Intimate Relationships (3). In this course students examine how to build and maintain key relationships through understanding themselves and critical relationship process. These key relationships include intimate relationships (dating/marriage partners, children, parents) and professional relationships (clients, coworkers, supervisors). Course content emphasizes the importance of making purposeful choices in building and maintaining personal and professional relationships.

Graduate Courses

Child Development Courses

CHD 5266. Advanced Child Development (3).
CHD 5617. Professional Development in Family and Child Sciences (1).
CHD 5618. Policy Development and Analysis in Child and Family Sciences (3).
CHD 5906r. Directed Individual Study (1–3). (S/U grade only.)
CHD 5915. Methods of Research I (4).
CHD 5919. Grant Writing in Family and Child Sciences (3).
CHD 5940r. Practicum in Child Development: Varied Ages (infancy, preschool, school-age) (3–9).
CHD 6261. Theories of Child Development (3).
CHD 6264. Assessment Techniques for Children and Families (3).
CHD 6930r. Seminar in Child Development: Topics Vary and/or Ages Vary (prenatal, infancy, preschool, school-age through adolescence) (3–9).

Family Development/Relations Courses

FAD 5256. Parent and Child Relations (3).
FAD 5261. Families in Crisis (3).
FAD 5263. Advanced Family Studies (3).
FAD 5452. Human Sexuality Education (3).
FAD 5481r. College Teaching in Family Sciences (2–3). (S/U grade only.)
FAD 5618. Legal, Ethical, and Professional Issues in Marriage and Family Therapy (3).
FAD 5619. Professional Issues in Family and Child Sciences (3).
FAD 5700. Applied Research in Human Sciences (4).
FAD 5705. Qualitative Research in Family and Child Science (3).
FAD 5900r. Readings in Family and Child Sciences (3).
FAD 5906r. Directed Individual Study (1–3). (S/U grade only.)
FAD 5934r. Seminar in Family and Child Sciences (1–9).
FAD 5944r. Internship-Family/Child (1–12).
FAD 5970. Special Project (3). (S/U grade only.)
FAD 6436. Theories of Family Sciences (3).
FAD 6450. Human Sexuality (3).
FAD 6605. Advanced Clinical Marriage and Family Therapy Theory (3).
FAD 6606. Supervision in Marriage and Family Therapy (3).
FAD 6607. Randomized Clinical Trials (3).
FAD 6608. Effectiveness and Translation Research (3).
FAD 6916. Outcome Research in Marriage and Family Therapy (3).
FAD 6917. Research Methods in Family and Child Sciences (3).
FAD 6930r. Special Topics: Marital and Family Therapy–Topics Vary (3–9).
FAD 6935r. Special Topics: Family and Child Development–Topics Vary (3–9).
FAD 6940r. Practicum in Marital and Family Therapy (1–5). (S/U grade only.)
FAD 8944r. Internship in Marriage and Family Therapy (1–12).

Other Courses

CHD 5912r. Supervised Research (1–3). (S/U grade only.)

CHD 5942r. Supervised Teaching (1–3). (S/U grade only.)
FAD 5912r. Supervised Research (1–3). (S/U grade only.)
FAD 5942r. Supervised Teaching (1–3). (S/U grade only.)
HOE 6366. Research Best Practices in Human Sciences (2).

FILM STUDIES:
see Motion Picture Arts

Undergraduate Department of FINANCE

College of Business

Website: *http://business.fsu.edu/departments/finance/*
Chair: William A. Christiansen; **Professors:** Ang, Cheng, Clark, Humphrey, Da. Peterson; **Associate Professors:** Autore, Christiansen, Hutton, Knill, Perfect; **Assistant Professors:** Cocquemas, Dougal, Khoshnoud, Liu, Mityakov; **Senior Lecturer in Finance:** G. Bliss, G. Smith; **Associate Lecturer in Finance:** Mahon; **Assistant Lecturers in Finance:** De. Peterson, D. Smith, Syvrud; **Fannie Wilson Smith Eminent Scholar in Banking:** Humphrey; **Patty Hill Smith Eminent Scholar in Finance:** Cheng; **Bank of America Eminent Scholar in Finance:** Ang; **Wells Fargo Professor of Finance:** Da. Peterson; **BB&T Professor in Finance:** Christiansen; **Gene Taylor Bank of America Professors in Finance:** Hutton, Knill; **Dean L. Cash Professor in Finance:** Autore

Finance is considered one of the basic functions of our private enterprise system. Finance can be defined as the art and science of managing money. Each of the many firms, businesses, institutions, and governmental agencies in our economic system has the problems of obtaining, administering, and managing its funds efficiently and wisely. Nearly every decision made by an organization has important financial implications. Thus, the finance student is introduced to and studies the theory, concepts, applications, institutional environment, and analytical tools essential for proper decision making. Finance is designed as preparation for a broad variety of careers, since all organizations need individuals knowledgeable about finance. Careers may be in financial management and analysis, banking, financial institutions, financial markets, investments, portfolio analysis and management, financial planning, and multinational finance. Finance is also considered good preparation for graduate study in law or business. The department also offers a combined BS/MSF pathway and a combined BS/MBA pathway that allows highly qualified undergraduate students the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MSF or MBA degrees. Detailed descriptions of the MSF and MBA programs can be found in the Graduate Bulletin.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in finance satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 (state mandated business prerequisite requirement) or CGS 2518.

Note: CGS 2518 with a grade of "C–" or better is required for students in the Finance major and is a prerequisite to all 4000-level courses offered in the Finance Department.

Required Risk in Business and Society Course

All undergraduates at Florida State University intending to enter a business major should complete RMI 2302, Risk in Business and Society, with a "C–" or better by the end of their sophomore year, but no later than their fifth mapping term.

Required Professional Development Course

All undergraduates entering Florida State University in Fall 2019 and later must complete a one-credit course in professional development, GEB 1030, with a "C–" or better by the end of their fifth mapping term. However, students are encouraged to complete the course by the end of their sophomore year to take full advantage of the material.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Finance, General

1. ACG X021 or ACG X022, or ACG X001 and ACG X011
2. ACG X071 or ACG X301
3. CGS X100 (or demonstrated competency) or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
4. ECO X013
5. ECO X023
6. MAC X233 or MAC X230
7. STA X023 or STA X122 or QMB X100

Requirements

Requirements for the Finance Program

Candidates for the Bachelor of Science (BS) or Bachelor of Arts (BA) degree with a major in finance must complete a minimum of one hundred twenty semester hours. Normally, four semesters of work are devoted to the *Liberal Studies for the 21st Century Program* and additional foundation courses in mathematics, economics, and statistics. The finance major must complete the business common body of knowledge, which includes work in accounting, quantitative methods, management, business law, marketing, computer science, business communications, and basic finance. The finance major requirements consist of an additional eighteen semester hours of work in advanced finance and accounting courses.

Requirements for a Major in Finance

All students must complete the following: (1) the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*; (2) the state of Florida common program prerequisites for finance majors; (3) the general business core requirements for finance majors; (4) the general business breadth requirements for finance majors; and (5) the major area requirements for finance majors.

Note: To be eligible to pursue finance major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements for Finance Majors

All finance majors must complete the following six courses. A grade of "C–" or better must be earned in each course*

BUL 3310 The Legal and Ethical Environment of Business (3)
***FIN 3403** Financial Management of the Firm (3)
GEB 3213 Business Communications (3)
ISM 3541 Introduction to Business Analytics (3)
MAN 3240 Organizational Behavior (3)
MAR 3023 Basic Marketing Concepts (3)

General Business Breadth Requirements for Finance Majors

All finance majors must complete the two courses as follows. Each course must be completed with a grade of "C–" or better.

FIN 3244 Financial Markets, Institutions, and International Finance Systems (3)
QMB 3200 Quantitative Methods for Business Decisions (3)

Capstone Course

All finance majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C–" or better.

Major Area Requirements for Finance Majors

All finance majors must complete six courses (eighteen semester hours) as listed below.

A grade of "B–" or better must be earned in FIN 3403 and a grade of "C–" or better must be earned in CGS 2518 and FIN 3244 to be eligible to enroll in any 4000-level course offered by the Finance Department.

A grade of "C–" or better must be earned in FIN 4424, FIN 4504, and the two additional finance electives used to satisfy the finance major area requirements. A minimum grade point average (GPA) of 2.0 must be earned in the courses used to satisfy the finance major area requirements.

Finance majors cannot repeat FIN 3403 more than three times. Non-finance majors are not subject to this repeat policy.

ACG 3171 Analysis of Financial Statement Presentation (3)

Note: The two course sequence, ACG 3101 (Financial Accounting and Reporting I) and ACG 3111 (Financial Accounting and Reporting II), may be substituted for ACG 3171.

ACG 3331 Cost Accounting and Analysis for Business Decisions (3)

Note: ACG 3341 (Cost Accounting) may be substituted for ACG 3331.

FIN 4424 Problems in Financial Management (3)
FIN 4504 Investments (3)

Plus two electives from the following list of courses:

FIN 4324 Commercial Bank Administration (3)
FIN 4412 Short-Term Financial Management (3)
FIN 4453 Financial Modeling and Forecasting (3)
FIN 4514 Security Analysis and Portfolio Management (3)
FIN 4604 Multinational Financial Management (3)
FIN 4730 Strategic Consulting for Finance (3)
FIN 4934r Senior Seminar in Finance (3)
GEB 4455 Perspectives on Free Enterprise (3)
***REE 4204** Real Estate Finance (3) or
***REE 4313** Real Estate Investment (3)

*Students may count only one of these REE courses as a Finance major elective.

Honors in the Major

The Department of Finance offers honors in the major to encourage talented students to undertake independent and original research as part of the undergraduate experience. For requirements and other information see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

ECP—Economic Problems and Policy
FIN—Finance
GEB—General Business
MAN—Management
QMB—Quantitative Methods in Business

Undergraduate Courses

FIN 3140. Personal Finance (3). This course is a study of the concepts and processes in planning, analyzing, and controlling personal financial resources. Emphasizes financial planning, cash and credit management, managing expenditures, income and asset protection, investment planning, and retirement and estate planning. For nonbusiness majors only. Credit not allowed for business majors.

FIN 3244. Financial Markets, Institutions, and International Finance Systems (3). Prerequisites: ACG 2021 and ECO 2013. This course focuses on money and capital markets, financial institutions, financial systems, and financial environment including an introduction to investments. Emphasizes the microfinancial decision-making process of the business firm.

FIN 3403. Financial Management of the Firm (3). Prerequisites: ACG 2021 and ECO 2023. This course is an examination of the basic concepts involved in the investment, financing, and dividend decisions of the business firm. Managerial orientation with emphasis on identification, analysis, and solution of financial problems confronting the firm.

FIN 4324. Commercial Bank Administration (3). Prerequisites: CGS 2518 (C-or better) and FIN 3244 (C- or better) and FIN3403 (B- or better). This course is a study of the operations and administration of commercial banks and their role in the money and capital markets. Examines banking regulation, the lending function, investments, and the financial decision-making process.

FIN 4412. Short-Term Financial Management (3). Prerequisites: CGS 2518 (C- or better) and FIN 3244 (C- or better) and FIN 3403 (B- or better). This course focuses on the decisions impacting the short-term cash flows of organizations—public, private, governmental, and non-profit. Topics include: cash management, treasury management, and working capital management.

FIN 4424. Problems in Financial Management (3). Prerequisites: CGS 2518, FIN 3244 and FIN 3403 with a grade of "B–" or better. This course gives students an understanding of the underlying principles of finance from the decision-making perspective of financial managers. Topics include: project valuation and capital budgeting decisions, return and risk analysis, capital structure, payout policy, and corporate governance. Case studies are included.

FIN 4433. Venture Capital and Private Equity (3). Prerequisites: CGS 2518, FIN 3244, and FIN 3403. This course provides a comprehensive overview of the private equity industry with an emphasis on venture capital investing. The private equity industry is the set of investment funds that raise capital to buy ownership (equity) in private companies. This industry provides an important source of capital and managerial expertise throughout the life cycle of a firm.

FIN 4453. Financial Modeling and Forecasting (3). Prerequisites: CGS 2518 (C- or better) and FIN 3244 (C- or better) and FIN 3403 (B- or better). This course is an introduction to financial modeling and forecasting. Emphasis is on computer models and forecasting financial variables.

FIN 4504. Investments (3). Prerequisites: CGS 2518, FIN 3244, and FIN 3403 with a grade of "B-" or better. This course is an introduction to investment/security analysis. Includes an examination of investment instruments, the investment environment, the concept of risk-return, and the interactive forces between the economy, industries, and individual firms.

FIN 4514. Security Analysis and Portfolio Management (3). Prerequisites: FIN 3244 (C- or better) and FIN 3403 (B- or better) and FIN 4504 (C- or better). This course is an advanced and comprehensive coverage of investment topics including bond analysis, stock options, interest rate futures, options on futures contracts, portfolio analysis and management, and security market efficiency.

FIN 4604. Multinational Financial Management (3). Prerequisites: CGS 2518 (C- or better) and FIN 3244 (C- or better) and FIN 3403 (B- or better). This course introduces the environment of international capital and foreign exchange markets and examines the effects of the international business environment on risk, capital budgeting, working capital management, and capital structure decisions of the firm.

FIN 4730. Strategic Consulting for Finance (3). Prerequisites: CGS 2518 (C-or better) and FIN 3244 (C- or better) and FIN 3403 (B- or better). This course helps students leverage creative skills to find solutions for business challenges. The course teaches students how to gather data, transform it into useful information, locate problem areas, generate ideas, and choose optimal solutions rooted in ethics and values. Current consulting strategies and techniques, including best practices, continuous improvement, business process outsourcing and others will be reviewed and discussed.

FIN 4905r. Directed Individual Study (1–3). This course permits study or exploration into a specialized topic of finance that is not included in one of the other finance courses. It also permits advanced and extensive study of finance topics beyond that included in the other finance courses. The study is conducted with the direct supervision of an individual faculty member. This course may not be used as one of the two required finance electives detailed in the major requirements. May be repeated to a maximum of five times with the requirement that the topic changes each time. Consent of the department chairperson is required.

FIN 4934r. Senior Seminar in Finance (3). Prerequisites: CGS 2518 (C- or better) and FIN 3244 (C- or better) and FIN3403 (B- or better). May be repeated to a maximum of nine semester hours as topics vary. Additional prerequisites may be required depending on the topic.

FIN 4941. Finance Internship (3). (S/U grade only.) Prerequisite: FIN 3403 and FIN 3244. This internship is designed for College of Business students who desire to gain real world experience in the finance field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor, and the internship director.

FIN 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine semester hours. Six semester hours of thesis are required to complete honors in the major.

GEB 4455. Perspectives on Free Enterprise (3). Prerequisites: CGS 2518 (C- or better) and FIN 3244 (C- or better) and FIN 3403 (B- or better). This course is an examination of the free enterprise system and the associated economic schools of thought. Sponsored by the BB&T Center for Free Enterprise.

QMB 3200. Quantitative Methods for Business Decisions (3). Prerequisites: CGS 2100 and STA 2023. This course examines classical and modern decision-making techniques based on probabilistic concepts. Emphasizes applications to all areas of business.

Graduate Courses

ECP 5706. Economic Analysis for Management (3).
FIN 5108. Fundamentals of Personal Finance (3).
FIN 5306. Investment Banking (3).
FIN 5317. Financial Institutions and Risk Management (3).
FIN 5425. Problems in Financial Management (3).
FIN 5455. Financial Data Analytics (3).
FIN 5515. Investment Management and Analysis (3).
FIN 5537. Financial Derivatives and Risk Management (3).
FIN 5545. Fixed Income Securities (3).
FIN 5605. Multinational Financial Management (3).
FIN 5840. Applied Econometrics in Finance (3).
FIN 5906r. Directed Individual Study (1–3). (S/U grade only.)
FIN 5907r. Special Studies in Management (1–3).
FIN 5917r. Supervised Research (1–3). (S/U grade only.)
FIN 5935r. Seminar on Current Topics in Finance (3).
FIN 6449. Seminar in Finance (3).
FIN 6527. Seminar in Finance – Investments (3).
FIN 6709. Seminar in Finance (1–3).
FIN 6804. Foundations of Financial Theory (3).
FIN 6842. Research Methods in Finance (3).
FIN 6917r. Supervised Research (1–3). (S/U grade only.)
FIN 6946r. Supervised Teaching (1–3). (S/U grade only.)
GEB 5907r. Special Studies in Business (1–3).
GEB 5932r. Professional Development (1–3).
MAN 5716. Business Conditions Analysis (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

FOOD SCIENCE:
see Nutrition, Food and Exercise Sciences

FOOD SERVICE SYSTEMS:
see Hospitality; Nutrition, Food and Exercise Sciences

FOUNDATIONS OF EDUCATION:
see Educational Leadership and Policy Studies

FRENCH:
see Modern Languages and Linguistics

GENETICS:
see Biological Science

Undergraduate Minor in FLORENCE STUDY CENTER INTERDISCIPLINARY STUDIES

College of Arts and Sciences

Website: *http://florence.fsu.edu/*

Coordinator: James E. Pitts (International Programs)

The Florence Study Center minor is focused on the culture of Italy from ancient times to the present. The minor is built around the student's program of studies at the Florida State University Florence Study Center, allowing the student to pursue the minor before, during, and after the student attends the Florence program. The minor gives greater focus to, and enhances the quality of, the student's program of studies in Italy. The sojourn in Florence is the essential element in the minor, providing direct involvement in contemporary Italian civilization as well as exposure to Italy's historical cultural artifacts.

Requirements for a Minor in Florence Study Center Interdisciplinary Studies

The interdisciplinary minor requires the completion of fifteen semester hours in courses approved by the Florence Study Center Minor Coordinating Committee. **At least nine semester hours of approved courses must be taken while the student is in residence at the Florence Study Center**. A maximum of nine semester hours may be counted in any single academic discipline. Students who intend to minor in Florence Study Center Interdisciplinary Studies should declare this intention with International Programs at the end of the semester in Florence. Contact Sarah Lovins Bacani at *slovins@fsu.edu* for further information.

The student must have completed at least three semester hours (or the equivalent) in elementary Italian prior to attending the Florence Center.

A minimum grade of "C–" must be earned for all courses taken for the minor. In addition, a minimum cumulative grade point average of 2.0 must be maintained in all courses counted toward the minor.

Core Courses

These courses will be counted in the minor whether they are taken at the Tallahassee campus or in Florence. Descriptions of these courses can be found under the individual departments in which they are taught:

ARH 3150 Art and Archaeology of Ancient Italy (3)
ARH 4120 Etruscan Art and Archaeology (3)
ARH 4151 Art and Archaeology of the Early Roman Empire (3)
ARH 4154 Archaeology of the Late Roman Empire (3)
ARH 4210 Early Christian and Byzantine Art (3)
ARH 4304 History of Renaissance Architecture (3)
ARH 4310 Early Italian Renaissance Art: 15th Century (3)
ARH 4312 Later Italian Renaissance Art: 16th Century (3)
ARH 4352 Southern Baroque Art (3)
CLA 2010 Peoples of the Roman World (3)
CLA 2123 Debates About the Past: Roman Civilization, History and Culture (3)
CLA 3502 Women, Children, and Slaves in Ancient Rome: The Roman Family (3)
CLA 4447r Studies in Roman History (3)
CLA 4780r Classical Archaeology: Field Work (1–6)
EUH 3431 Modern Italy (3)
EUH 4140 Renaissance (3)
EUH 4412 The Roman Republic (3)
EUH 4413 The Roman Empire (3)
IDS 2166 Art as Propaganda: The Impact of Visual and Performing Arts on Western Society (3)
IDS 2411 The Italian Mafia: From Corleone to the Globalized World (3)
IDS 2432 Political Participation in the 21st Century: From Indigenous Communities to On-line Democracy (3)
IDS 2661 Made in Italy: Cultural Capital and Global Exchanges (3)
IDS 3195 Vistas on Florence: From Dante to the Big Flood of 1966 (3)
IDS 3330 The Culture is in the Cuisine: The Food of Italy (3)
IDS 3416 Ethics and Empire in the Roman World (3)
INR 3932 Special Topics in International Affairs [Global Foundations] (3)
ITT 3114 Dante's Inferno (3)
ITT 3430 Masterpieces of Italian Literature and Culture in Translation (3)
ITT 3500 Italian Culture and Civilization: From Origins to the Age of Romanticism (3)
ITT 3501 Modern Italian Culture: From Unification to the Present (3)
ITT 3523 Italian Cinema (3)
LNW 4320 Roman Lyric, Elegiac, and Pastoral Poetry (3)
LNW 4340 Roman Epic (3)
LNW 4360 Roman Satire (3)
LNW 4380 The Roman Historians and Cicero (3)
MUS 4242 Italian Language and Diction for Singers (3)
PHH 3061 Medieval and Renaissance Philosophy (3)
REL 3505 The Christian Tradition (3)

In addition, any **Italian courses at the 2000 level or above** will count toward the Florence Study Center minor.

Note: Each student must have completed at least one introductory course in Italian—on the freshman level—prior to studying at the Florence Center in order to qualify for the minor. Note also that courses used to satisfy the University's foreign language requirement for the BA degree may not also count in the minor.

Related Courses

These courses may be counted in the minor **only** when they are taken at the Florence Study Center and the syllabus shows that at least fifty percent of the material presented is relevant to the minor:

ANT 2410 Introduction to Cultural Anthropology (3)
ARH 2000 Art, Architecture, and Artistic Vision (3)
ARH 2050 History and Criticism of Art I (3)
ARH 2051 History and Criticism of Art II (3)
ARH 4173 Studies in Classical Archaeology and Art (3)
ARH 4211 Early Medieval Art (3)
ARH 4230 Later Medieval Art (3)
ARH 4933 Special Topics in Art History [Florentine Renaissance] (3)
ART 1300C Drawing I (3)
CLT 3370 Classical Mythology (3)
COM 3930 Special Topics in Communication (3)
CTE 4707 International Topics in Design Industry (3)
CTE 4937 Special Topics (3)
ENC 3310 Article and Essay Technique (3)
ENC 4311r Advanced Article and Essay Workshop (3)
EUH 2000 Ancient and Medieval Civilizations (3)
EUH 3205 19th-Century Europe (3)
HUM 2020 The Art of Being Human: Examining the Human Condition Through Literature, Art, and Film (3)
HUM 2235 Humanities: From the Renaissance to the Enlightenment (3)
HUM 3930 Special Topics [Food and Drink of Italy] (3)
HUM 4931r Topics in the Civilization of Britain or Italy (3)
IDS 2060 Global Engagement (1)
IND 3930 Special topics in Interior Design [Sketching the City] (3)
IND 4101r History of Interiors I (3)
PGY 2100C Photo for Non-Art Majors (3)
SYD 3600 Cities in Society (3)

All other courses offered at the Florence Study Center may be counted toward the minor if a course syllabus shows that at least fifty percent of the material presented is relevant to the minor, and provided the Florence Center Minor Coordinating Committee gives approval for their inclusion in the minor. In addition, special topics courses offered on Florida State University's campus on a one-time basis may be counted if the Coordinating Committee approves them. To have such courses considered, petition the Coordinating Committee, International Programs, *University Center A5500, Tallahassee, FL, 32306-2420*.

Courses used toward the Florence Study Center minor cannot be used to meet any other University requirement (general education, major, graduation, etc.)

JAPANESE:
see Asian Studies; Modern Languages and Linguistics

JEWISH STUDIES:
see Religion

LATIN:
see Classics

Undergraduate Department of GEOGRAPHY

College of Social Sciences and Public Policy

Website: *http://geography.fsu.edu/*

Chair: James Elsner; **Professors:** Elsner, Horner, Mesev, Yang; **Associate Professors:** Pau, Uejio, Zhao; **Assistant Professors:** Feng, Gergan, Johnson, Lester, Mallory, McCreary, Ponder, Wong; **Affiliate and Adjunct Faculty:** Doel, Hart, Miller, Miglorelli, Molina, Nickerson, Puiatti, Quinton, Weisman, Windus

The Department of Geography offers two separate degrees reflecting the discipline's position straddling the social and natural sciences: one is the bachelor's in Geography and the second, a new STEM bachelor's in Environment & Society. While these programs overlap to some extent, they differ in how society interacts with the natural environment: Geography examines how location and scale affect human behavior within urban, rural, and natural environments, while Environment & Society explores how humans both affect and are affected by changes in the natural environment. Students may double major in Geography and Environment & Society; with a maximum of eleven semester hours allowed to overlap. The Department also offers Pathways programs from both the Geography major and the Environment & Society major to the Applied Master's program in Geography Information Science.

Geographers are concerned with mapping how changes to the landscape, vegetation, animals, and climate impact where humans live, socialize, work, trade, and form cultural and nationalist identities. They examine industry, environmental health, boundary disputes, urban financialization and decay, political ecology, social movements, race and indigeneity, Black geographies, cultural identities, and how these relate to the protection, justice, and concern for the environment, including climate change and recycling/sustainability practices. On the other hand, Environmentalists work as policy analysts and natural resource conservationists, dealing with issues as wide-ranging as food production, marine exploitation, soil pollution, land use planning, coastal protection, severe storm mitigation, waste disposal, environmental health, and urban sustainability. Many of these are mapped and monitored using geographic information systems (GIS), including remote sensing and spatial statistics. Students are encouraged to use the College of Social Sciences and Public Policy's GIS laboratory, running the market-leader ArcGIS software. The two degrees provide access to jobs that help determine where public facilities, infrastructure, and environmental resources are located, counted, measured, and evaluated so that they provide benefit to as many people as possible within the best interests of the natural environment. Amongst the breadth of jobs, students are employed as planning and development surveyors, environmental consultants, real estate appraisers, land use analysts, park rangers, market researchers, cartographers, GIS analysts, foresters, demographers, natural resource managers, tour guides, soil scientists, and teachers.

For a complete education in Geography or Environment & Society, all students are given the opportunity to take courses that reflect the Department's research strengths in transportation optimization, land use/land cover change, urban growth, population mapping, regionalization and location theory, political ecology, race and identity, environmental conflict and policy, urban sustainability, environmental health, hurricane forecasting, tropical forests and grasslands, coastal and estuarine ecosystems, energy consumption and conservation, and biodiversity and resource management. Visit the department Web site (*http://geography.fsu.edu*) or contact Undergraduate Program Director, Dr. Victor Mesev (*vmesev@fsu.edu*) or Academic Program Coordinator, Ms. Allison Young (*aryoung@fsu.edu*) in *Bellamy 301*.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Geography

1. GEO XXXX and GEO XXXX: two introductory geography courses (GEO prefix) for a total of six credit hours

Geography Major

Geography bridges the social sciences and physical sciences in the pursuit of how humans affect and are affected by natural environment. Geographers examine many social/physical issues at every scale, such as housing development and habitat loss, insurance premiums and storm damage, commercial fishing and marine sustainability, transport flow and air pollution, energy needs and mineral exploitation, and intensive farming and deforestation. Geography is the study of place and space, in the same sense that history is the study of time. Geographers ask: where are things located? Why are they located where they are? And how do we map them? Geographers are concerned with mapping how changes to the landscape, vegetation, animals, and climate impact where humans live, socialize, work, trade, and form cultural and nationalist identities. They examine agricultural practices, industry, boundary disputes, urban decay, political ideologies, religious principles, and how these relate to perceptions of the environment, concern for global warming, and recycling/sustainability practices. All of these can by mapped using computer-based GIS, GPS and satellite surveillance techniques with ever-improving geographic accuracy and precision.

Major Requirements

A major in geography consists of thirty-four semester hours. All courses must be completed with a grade of "C–" or better.

All of the following core courses are required (nineteen hours)

GEA	**1000**	World Geography (3)
GEO	**1400**	Human Geography (3) (Cross-Cultural X)
GEO	**2200C**	Physical Geography (3)
GEO	**4162C**	Spatial Data Analysis (3)
GIS	**3015**	Map Analysis (3)
GIS	**4043**	Geographic Information Systems (3)
		AND
GIS	**4043L**	Geographic Information Systems Lab (1)

Human Geography (three hours) Select one course from the following:

GEO	**3502**	Economic Geography (3)
GEO	**4404**	Black Geographies (3)
GEO	**4421**	Cultural Geography (3) (Cross-Cultural X)
GEO	**4450**	Medical Geography (3)
GEO	**4471**	Political Geography (3)
GEO	**4503**	Globalization (3)
GEO	**4505**	Geographies of Oil (3)
GEO	**4602**	Urban Geography (3)
GEO	**4700**	Transport Geography (3)
GEO	**4804**	Geography of Wine (3)
IDS	**2180**	Dead Cities (3)
IDS	**2492**	Sport: Place, Competition, and Fairness (3) (counts for Ethics)
IDS	**3336**	"Great" Britain? Geography, Imperialism, Industry, and Culture (3) (Western Experience Y)

Physical Geography (three to four hours) Select one course from the following:

GEO	**4210**	Landforms and Landscapes (3)
GEO	**4280**	Geography of Water Resources (3)
GEO	**4300**	Biogeography (3)
GEO	**4376**	Landscape Ecology (3)
GEO	**4392**	Geography of Marine Conservation (3)
GIS	**4035**	Introduction to Remote Sensing (3)
		AND
GIS	**4035L**	Introduction to Remote Sensing Lab (1)
IDS	**2471**	Glaciers, Geysers, and Glades: Exploring U.S. National Parks (3)
IDS	**2473**	Putting Science into Action: Field Methods in Plant Ecology (3)

General Geography courses (eight to nine hours)

Students must select additional geography courses (GEA/GEO/GIS) at the 3000/4000 level to bring the total credits in the major to thirty-four; coursework may include a maximum of nine credit hours of GEO 4930 (Special Topics) classes. A maximum of three credit hours may be used from GEO 4905 DIS or GEO 4941 Internship.

No credit for geography courses with a grade below "C–" will be applied towards completion of the major.

Minor Coursework: at least twelve hours

Geography majors are required to complete a minor in any departmental or interdisciplinary area of interest. Minors normally range from twelve to eighteen hours.

Minor in Geography

The geography minor consists of fifteen semester hours of coursework in geography from the following choices:

GEA 1000 World Geography (3)
GEO 1400 Human Geography (3) (Cross-Cultural X)
GEO 1330 Environmental Science (3)

OR

GEO 2200C Physical Geography (3)
GEO 4162C Spatial Data Analysis (3)

OR

GIS 3015 Map Analysis (3)
Any GEA/GEO/GIS 3000 or higher elective

All courses must be completed with a grade of "C–" or better. If the geography minor is combined with the Environment & Society major, GEO 1330/GEO 2200C and one other course (up to six credits total) may count toward both the major and the minor. For more information contact the Department of Geography or visit the department's Web site at *http://geography.fsu.edu/*.

Environment & Society Major

Environment & Society is an interdisciplinary STEM program of study that explores how humans affect and are affected by changes in the natural environment. It combines courses from the social sciences and the natural sciences to investigate today's pressing environmental issues, such as ecosystem management, climate change, natural resource conservation, food production, marine exploitation, urban sustainability, land use planning, severe storm mitigation, and environment health—including how these issues are debated, measured, evaluated and then formulated into public policy. The major is highly flexible and allows students to explore a wide variety of classes when choosing how to study how humans interact, control, and live in harmony with nature. It requires forty-one semester hours with a grade of "C–" or better in each course; at least eighteen semester hours must be taken in upper-level (3000- and 4000-level) courses.

Note: Some of the following courses have prerequisites.

II. **Basic Core Curriculum:** all of the following courses (total fourteen credit hours):

BSC 2010 Biological Science I (3)

AND

BSC 2010L Biological Science I Lab (1)
CHM 1045 General Chemistry I (3)

AND

CHM 1045L General Chemistry I Lab (1)
GEO 1330 Environmental Science (3)
GEO 2200C Physical Geography (3)

III. **Natural Science Courses:** four courses (total **TWELVE** credit hours) with at least one from the core list:

Core List (3 to 12 hours)

GEO 4210 Landforms and Landscapes (3)
GEO 4251 Geography of Climate Change and Storms (3)
GEO 4280 Geography of Water Resources (3)
GEO 4300 Biogeography (3)
GEO 4340 Living in a Hazardous Environment (3)
GEO 4376 Landscape Ecology (3)
GEO 4392 Geography of Marine Conservation (3)
IDS 2471 Glaciers, Geysers, and Glades: Exploring U.S. National Parks (3)

Elective List (0 to 9 hours)

BOT 3143 Field Botany (4)
BSC 3016 Eukaryotic Diversity (3)
BSC 3312 Marine Biology (3)
BSC 4514 Aquatic Pollution Biology (3)
BSC 4821C Biogeography (3)
CHM 4080 Environmental Chemistry I (3)
CHM 4081 Environmental Chemistry II (3)
GEO 4930 Special Topics in Geography (3) (**Note:** content varies and not all GEO 4930 courses will count as electives)
GLY 1030 Environmental Issues in Geology (3)
GLY 2010C Physical Geology (3)
GLY 3039 Energy, Resources, and the Environment (3)
IDS 3232 Living Green, Theory to Action (3)
ISC 2003 Global Change, Its Scientific and Human Dimensions (3)
MET 2101 Physical Climatology (3)
MET 2507C Weather Analysis and Forecasting (2)
MET 2700 General Meteorology (3)
MET 3300 Introduction to Atmospheric Dynamics (3)
OCE 4008 Principles of Oceanography (3)
OCE 4017 Current Issues in Environmental Science (3)
OCE 4265 Coral Reef Ecology (3)
PCB 3043 General Ecology (3)
PCB 4402 Ecology of Infectious Diseases (3)

IV. **Social Science Electives:** three of the following courses (total **NINE** credit hours) with at least one from the core list:

Core List (3 to 9 hours)

GEO 3502 Economic Geography (3)
GEO 4344 Environmental Disasters and Apocalypse (3)
GEO 4355 Geography: Food and Environment (3)
GEO 4404 Black Geographies (3)
GEO 4421 Cultural Geography (3) (Cross-Cultural X)
GEO 4450 Medical Geography (3)
GEO 4471 Political Geography (3)
GEO 4503 Globalization (3)
GEO 4505 Geographies of Oil (3)
GEO 4602 Urban Geography (3)
GEO 4700 Transport Geography (3)
GEO 4804 Geography of Wine (3)
IDS 2180 Dead Cities (3)
IDS 2227 Sustainable Society (3)
IDS 2492 Sport: Place, Competition, and Fairness (3) (counts for Ethics)
IDS 3336 "Great" Britain? Geography, Imperialism, Industry and Culture (3) (Western Experience Y)

Elective List (0 to 6 hours)

AMH 2097 Nationality, Race, and Ethnicity in the United States (3)
AMH 4630 North American Environmental History (3)
AMH 4634 Florida Environmental History (3)
GEO 4930 Special Topics in Geography (3) (**Note:** content varies and not all GEO 4930 courses will count as electives)
IDS 2240 Sustainable Food and Water: Soil, Animals, Vegetables, and Grain (3)
IDS 2431 Thinking beyond Ourselves: Global Perspectives (3)
INR 2002 Introduction to International Relations (3)
PAD 3003 Public Administration in American Society (3)
PAD 4382 Disaster Recovery and Mitigation (3)
PAD 4391 Foundations in Emergency Management (3)
PAD 4603 Administrative Law (3)
PHI 2620 Environmental Ethics (3)
PUP 3002 Introduction to Public Policy (3)
PUP 4203 Environmental Politics and Policy (3)
SYD 3020 Population and Society (3)
SYD 4510 Environmental Sociology (3)

URP 3000 Introduction to Planning and Urban Development (3)
URP 4318 Growth Management and Environmental Planning (3)
URP 4402 Sustainable Development Planning in the Americas (3)
URP 4423 Environmental Planning and Resource Management (3)
URP 4710 Introduction to Transportation Issues and Transportation Planning (3)
URP 4936 Special Topics in Planning (3) (if approved by advisor; subjects vary)

V. **Methods Electives:** two of the following courses (total **SIX** to **SEVEN** credit hours) with at least one from the core list:

Core List (3/4 to 6/7 hours)

GEO 4162C Spatial Data Analysis (3) (cannot take along with SYA 4400)
GIS 3015 Map Analysis (3)
GIS 4006 Computer Cartography (3)
GIS 4035 Introduction to Remote Sensing (3)
AND
GIS 4035L Introduction to Remote Sensing Lab (1)
GIS 4043 Geographic Information Systems (3)
AND
GIS 4043L Geographic Information Systems Lab (1)
GIS 4330 Florida GIS Applications (3)
GIS 4402 GIS Applications for Social Sciences (3)
IDS 2473 Putting Science into Action: Field Methods in Plant Ecology (3)

Elective List (0 to 3 hours)

ENV 4611 Environmental Impact Analysis (3)
STA 3024 SAS for Data and Statistical Analysis (3)
SYA 4300 Methods in Social Research (3)
SYA 4400 Social Statistics (3) (cannot take along with GEO 4162C)

Minor in Environment & Society

A minor in environmental studies consists of a minimum of fifteen credit hours, composed of the following:

GEO 1330 Environmental Science (3)
GEO 2200C Physical Geography (3)
One Natural Core Course
One Social Science Core Course
One Methods Core Course

All courses must be completed with grades of "C–" or better. If an Environment & Society minor is combined with a geography major, GEO 2200C and one other course (up to six credits total) may be applied to both the major and the minor.

For more information, contact Department of Geography, or visit the department's Web site at *http://geography.fsu.edu/*.

Bachelor's/master's pathways

Students on either the Geography major or the Environment & Society major can apply for a pathway to the Applied Master's degree in Geographic Information Science (GIScience) by sharing or 'double counting' up to 12 graduate credit hours with their undergraduate program. This means 12 graduate credit hours can count towards your undergraduate degree AND count towards the 30 graduate credit hours for the master's degree in Applied GIScience, leaving you 18 graduate credit hours to complete the master's program after you complete your major. To be considered on the pathway, you must have taken the following courses with a grade of B- or higher:

GEO 4162C Spatial Data Analysis (3)
GIS 3015 Map Analysis (3)
GIS 4035 Geographic Information Systems (4)
AND
GIS 4043L Geographic Information Systems Lab (1)
GIS 4035 Introduction to Remote Sensing (3)
AND
GIS 4035L Introduction to Remote Sensing Lab (1)

You must have a desire to improve your skill levels in using computer software, statistics, mapping, and geographic relevance for resource monitoring. You must also maintain a GPA of 3.0. For more information visit geography.fsu.edu/programs/undergraduate/bachelorsmasters-pathways/ or contact Undergraduate Program Director, Victor Mesev, Bellamy 310 (*vmesev@fsu.edu*) or Academic Program Coordinator, Ms. Allison Young (*aryoung@fsu.edu*) in *Bellamy 301*.

Graduate Programs

Graduate programs are available leading to the Master of Arts (MA), the Master of Science (MS), the Applied Master of Science (MS) in GIScience, and the Doctor of Philosophy (PhD) in Geography. The graduate programs in the Department of Geography lead to an applied or a research-oriented degree centered on geographic information science (GIScience), environmental management, or human-environmental interactions.

Undergraduates contemplating a graduate degree in geography should take the Graduate Record Examination prior to submitting an application. Interested students should contact the Graduate Program Director, Dr. Tingting Zhao (*zhao@fsu.edu*), *304 Bellamy*.

Definition of Prefixes

EVR—Environmental Studies
GEA—Geography: Regional Areas
GEO—Geography: Systematic
GIS—Geography: Information Science
IDS—Interdisciplinary Studies

Undergraduate Courses

EVR 4314. Energy and Society (3). Prerequisite: GEO 1330. This course explores the demand and efficient use of energy from fossil fuels and alternate renewable sources, and how energy impacts urban and environmental sustainability.

GEA 1000. World Geography (3). This course is a regional survey of the human occupation of the face of the earth, local cultures, political systems, and development problems.

GEA 2210. United States and Canada (3). This course examines the physical diversity and the cultural and political patterns of North America.

GEA 2270. Florida (3). This course focuses on the physical, social, and economic geography of the state, including growth and environmental issues.

GEA 3563. The Mediterranean (3). This course analyzes the Mediterranean region as a unified totality (southern Europe and North Africa), focusing on historical changes that underpin current geography.

GEA 4213. U.S. National Parks (3). This course reviews the history, social, and environmental significance of America's national parks.

GEA 4405. Latin America (3). This course focuses on the contemporary Latin American landscape, its historical formation, societies and problems.

GEA 4500. Europe (3). This course focuses on Europe's terrain, variety of cultures, economies, and recent trends toward unity.

GEA 4520. Britain and Ireland (3). This course examines the physical and human geography of the United Kingdom and Ireland.

GEA 4554. Russia and Southern Eurasia (3). This course explores the peoples, cultures, and places of the former Soviet Union. Discusses the region's natural environment, historical development, and contemporary politics.

GEA 4635. Geography of the Middle East (3). This course reviews the history and essential economic and environmental factors of the Middle East region. The centrifugal and centripetal forces affecting development, culture, religion, ethnicity, and geopolitics.

GEO 1330. Environmental Science (3). This course explores the causes of local and global environmental problems and their impacts, including resource use, pollution, ecosystems, and population growth.

GEO 1400. Human Geography (3). This course is an introductory survey of geographic theories, issues and applications from the human perspective. The course discusses how people interact with each other politically, economically, culturally and socially across distances, scales and within various physical environments. In addition, global contrasts are examined using urban versus rural habitation, local versus transnational trade, and uneven economic development.

GEO 2200C. Physical Geography (3). This course is an overview of earth-sun relations, weather, climate, landforms, water systems, soils, and vegetation.

GEO 3423. Sports Geography (3). This course focuses on the geographical basis of sports at different spatial scales, including locational strategies of franchises, recruiting patterns, and the urban political economy of professional sports arenas.

GEO 3502. Economic Geography (3). This course examines the geography of economic activity at local, national, and global scales: historical development of capitalism, regional development, spatial structure of agriculture, manufacturing and services, the global economy, third world poverty, and population growth.

GEO 4114. Environmental Field Methods (3). This course focuses on the design and implementation of a field-based project employing field sampling, GIS, GPS, and exploratory statistical methods.

GEO 4162C. Spatial Data Analysis (3). This course is an introduction to the quantitative analysis of geographic data that explores clustering, spatial patterns, and intrinsic relationship between geographic variables.

GEO 4210. Landforms and Landscapes (3). This course is on the spatial distribution of geomorphic landforms across landscapes: how they form, how they change over time, how they are designated, and their nomenclature. Emphasis is given to how humans interact with these landscapes and how these landscapes can impact human habitation.

GEO 4251. Geography of Climate Change and Storms (3). This course explores the critical debate on global climatic fluctuations and extreme weather frequency in relation to human impact and interference. Particular focus is given to geographic variations and temporal validity.

GEO 4280. Geography of Water Resources (3). This course provides students with a comprehensive overview of the natural processes associated with water occurrence and resources. Focus is given to water's unique properties, how it occurs and moves through Earth's environment; how it impacts human habitation, and its future as a critical and valuable natural resource. Development of socio-economic concepts of management, supply, use, reclamation, and sustainability are also emphasized.

GEO 4300. Biogeography (3). This course examines the spatial distributions of flora and fauna, ecosystem change, and human interventions such as logging, invasive species, and wilderness preservation.

GEO 4340. Living in a Hazardous Environment (3). This course explores types of environmental hazards (natural and human-made) and their effects, techniques for the analysis of risks, and strategies for recovering losses.

GEO 4344. Environmental Disasters and Apocalypse (3). This course covers theoretical debates on climate change and the Anthropocene, linking them to cinematic and cultural tropes of disaster and apocalypse. Students explore how anthropogenic climate change is being shaped by the actions of humans who have solely contributed to the massive build-up of carbon dioxide in the atmosphere since industrialization; the increased amounts of radioactivity in the layers of earth and ice; and repercussions from over-population.

GEO 4355. Geography: Food and Environment (3). This course explores food production, distribution and consumption by intensive global agro-food and local organic farm operations, and their impacts on environmental sustainability.

GEO 4357. Environmental Conflict and Economic Development (3). This course examines controversies over the use, transformation, and destruction of nature, including political ecology.

GEO 4376. Landscape Ecology (3). Prerequisites: GEO 1330, GEO 2200C, and GIS 4043. This course offers a review of methods on analyzing geographic patterns of natural phenomena, including ecological conservation, natural resource management, landscape and urban planning, as well as human-environmental interactions and implications. Familiarity with software packages such as ArcGIS is assumed.

GEO 4392. Geography of Marine Conservation (3). This course outlines the major conservation issues in coastal and marine systems worldwide, including the science, management and policy dimensions of marine conservation. The course explores critical conservation problems facing marine ecosystems; and at the same time explores their causes and threats from climate change, over-fishing, and other types of natural resource extraction and management failures. Students explore solutions, both science-based and social science-based (particularly economics, management and policy implementation).

GEO 4403. Global Change, Local Places (3). This course examines four aspects of global change—economic, environmental, cultural, and political—with a focus on how globalization is impacting individual countries and how places are responding to globalization's challenges.

GEO 4404. Black Geographies (3). This course addresses the historical, political, and spatial contexts in which geographies of black populations emerge throughout the United States and beyond. The course seeks to investigate ways in which black communities throughout the African Diaspora are spatially marginalized, and the ways in which Black communities produce space. The course discusses race, racism, alongside conversations of spatial marginalization (e.g. segregation).

GEO 4412. Environment and Gender (3). In this course, students look at how physical space (be it national boundaries or public parks) and the terrain of the symbolic realm are sometimes at odds. Included in the investigation is the examination of how ideas of gender, place and space affect individuals' experiences and how said experiences are created and limited by ideas at various geographical scales and contrasts between more and less economically developed nations.

GEO 4421. Cultural Geography (3). This course studies the processes by which various cultural features have diffused throughout the world. Emphasis is on the contemporary cultural landscape

GEO 4450. Medical Geography (3). Prerequisite: GEO 1400. This course applies geographical concepts and techniques to health-related problems, including the ecology of health, disease diffusion, medical cartography, and health care access.

GEO 4471. Political Geography (3). This course focuses on the spatial dimensions of political processes from the local to the global level, including elections and geopolitics of the world system.

GEO 4503. Globalization (3). This course explores the concepts and processes that define a world system of commodity production, labor costs, and cultural exchange.

GEO 4505. Geographies of Oil (3). This course addresses the politics of oil, not simply in terms of the policies that governments adopt, but also in terms of how petroleum has fundamentally shaped conceptions of what is politically possible, necessary, and good. Following oil from production, along pipelines, through refineries, and to consumers, this course engages with themes related to the political, economic, environmental, developmental, cultural, and urban geography.

GEO 4602. Urban Geography (3). This course explores the historical growth of cities; spatial structure of commercial, industrial, and public facilities within cities; residential segregation; urban poverty and fiscal distress, and urbanization in the third world.

GEO 4700. Transport Geography (3). This course offers a review of the literature and techniques for the spatial impacts of transportation systems, including functionality, and their role on society, the economy, energy, the environment, and sustainability.

GEO 4703. Communications Geography (3). This course examines the geopolitics and space-shrinking effects of telecommunications as well as economic and social impacts of several technologies, including the Internet and cyberspace.

GEO 4804. Geography of Wine (3). This course discusses the interplay of geographic factors that result in types and qualities of wine. Climate, soil, terrain, latitude, surrounding plants, and the tradition/culture of wine-making techniques determine the unique terroir of a wine region. As such, wine is tied to place, identified by place, made unique by place, and even made valuable by place. Topics discussed include how wine production (viniculture) has made social, economic, political, and cultural impacts around the world.

GEO 4905r. Directed Individual Study (1–5). May be repeated to a maximum of nine semester hours.

GEO 4930r. Special Topics in Geography (1–3). May be repeated to a maximum of nine semester hours.

GEO 4932r. Honors Work (1–6). May be repeated to a maximum of nine semester hours.

GEO 4941r. Internship (3–6). This course provides students with an opportunity to apply skills in supervised situations off-campus. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

GIS 2040. Essentials of GIS (3). This course is an introduction of the basic principles and techniques of geographic information systems (GIS) for students with no or rudimentary knowledge of geographic concepts and practices.

GIS 3015. Map Analysis (3). This course is an introduction to the acquisition, processing, and presentation of cartographic data.

GIS 4006. Computer Cartography (3). This course is an examination of computer mapping systems, theory, methodology, and applications.

GIS 4035. Introduction to Remote Sensing (3). Corequisite: GIS 4035L. This course covers remote sensing foundations and the use of remote sensing for environmental and cultural applications. Focus is on the foundations of remote sensing, aerial photography and photogrammetry, characteristics of various sensing systems, remote sensing applications, and an introduction to digital image processing.

GIS 4035L. Introduction to Remote Sensing Lab (1). Corequisite: GIS 4035. This lab provides practice with the concepts and techniques in remote sensing. Specifically, the lab covers the foundations of remote sensing, aerial photography and photogrammetry, characteristics of various sensing systems, remote sensing applications, and basic skills in digital image processing.

GIS 4043. Geographic Information Systems (3). Corequisite: GIS 4043L. This course is a survey of GIS topics, including locational control, spatial data structures, modeling and analysis, and future trends in decision support, sensors, and geographic methods.

GIS 4043L. GIS Lab (1). Corequisite: GIS 4043. This course is a survey of GIS topics, including locational control, spatial data structures, modeling and analysis, and future trends in decision support, sensors, and geographic methods.

GIS 4330. Florida GIS Applications (3). This course is an evaluation of the breadth of environmental and social applications of geographic information systems specific to the State of Florida.

GIS 4402. GIS Applications in Social Sciences (3). This course emphasizes quantitative applications but also explores qualitative critiques of GIS applications. Attention is given to measuring and interpreting social science processes, and the statistics behind analytical applications.

GIS 4421. GIS & Health (3). In this course, students use a suite of computer-based tools called geographic information systems to apply geographic theory to public health questions, such as where diseases are located, how places affect our well-being, and what geographic tools can be used to understand global health epidemics. The course is held in a GIS computer lab, where data on health is analyzed and applications in health and medicine are discussed as ongoing challenges in data collection related to issues of surveillance and privacy.

IDS 2180. Dead Cities (3). This course poses the question: How can we understand and respond to urban decay and decline? Using examples from the U.S. and abroad, students explore the differences between "conventional" urban poverty (which may be a necessary part of successful cities), systematic urban decline, new suburban poverty, favelas and shantytowns, etc. Students also examine recent strategies to "reclaim" failing cities.

IDS 2227. Sustainable Society (3). This course provides students with the opportunity to observe and inquire about sustainable practices through field studies at local organic farm, hydro-power station, new urbanism community, and recycling facilities, etc., as well as through interactions with community-based programs. Students engage in critical thinking about the sustainability of human society and the environment from various aspects, which include producers, consumers, public-service sectors, and policy makers.

IDS 2471. Glaciers, Geysers, and Glades: Exploring U.S. National Parks (3). This course explores the sustainability of the National Parks of the United States; their geographic distribution, physical structure, economic management, and cultural recreation.

IDS 2473. Putting Science into Action: Field Methods in Plant Ecology (3). This course addresses scientific research design and field data collection, drawing on principles in biogeography and ecology. Students focus on sampling design and survey methods for plants on three scales: populations, communities, and ecosystems. Students also gain insight into field-based inquiry and techniques to monitor and assess plant populations, communities, and ecosystems.

IDS 2492. Sport: Place, Competition, and Fairness (3). This course investigates the uneven distribution of sport and attitudes to sport; where money drives competition, and where culture dictates 'acceptable' levels of competition. Students evaluate the ethics and fairness of gamesmanship and sportsmanship, and how 'success' in sport has various definitions, including personal satisfaction, tribal coherence, and externalities linked with 'psychic income.'

IDS 3336. "Great" Britain? Geography, Imperialism, Industry, and Culture (3). This course studies the regional geography of the island of Great Britain; its changing position from a "great" imperial and industrial power to a "great" financial and cultural leader.

Graduate Courses

GEO 5058. Survey of Geographic Thought (3).
GEO 5115. Environmental Field Methods (3).
GEO 5118C. Introduction to Geographical Research (3).
GEO 5165C. Quantitative Geography (3).
GEO 5305. Biogeography (3).
GEO 5358. Environmental Conflict and Economic Development (3).
GEO 5378. Landscape Ecology (3).
GEO 5393. Geography of Marine Conservation (3).
GEO 5406. Black Geographies (3).
GEO 5417. Race and Place (3).
GEO 5425. Cultural Geography (3).
GEO 5451. Medical Geography (3).
GEO 5453. Global Health (3).
GEO 5472. Political Geography (3).
GEO 5545. Advanced Economic Geography (3).
GEO 5704. Transport Geography (3).
GEO 5908r. Directed Individual Study (1–6). (S/U grade only.)
GEO 5918r. Supervised Research (1–3). (S/U grade only.)
GEO 5934r. Seminar in Current Topics (1–3).
GEO 5947r. Supervised Teaching (1–3). (S/U grade only.)
GEO 6093. Professional Development in Geography (3).
GEO 6113. Qualitative Geography (3).
GIS 5034. Introduction to Remote Sensing (3).
GIS 5034L. Introduction to Remote Sensing Lab (1).
GIS 5038C. Advanced Remote Sensing (3).
GIS 5073. GIS Land Survey Methods (3).
GIS 5101. Geographic Information Systems (3).
GIS 5101L. GIS Lab (1).
GIS 5103. GIS Programming (3).
GIS 5106. Advanced Geographic Information Science (3).
GIS 5111. Spatial Modeling in Geographic Information Science (3).
GIS 5112. GIS Databases (3).
GIS 5122. Applied Spatial Statistics (3).
GIS 5131. Geographic Visualization (3).
GIS 5305. Geographic Information Systems for Environmental Analysis and Modeling (3).
GIS 5306. Environmental Change Modeling (3).
GIS 5318. Climate Change and Ecosystems (3).
GIS 5331. Florida GIS Applications (3).
GIS 5400. Geographical Information Systems Applications in Social Sciences (3).
GIS 5605. GIS Local Government (3).
GIS 5950. GIScience Capstone (6).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

GEOPHYSICAL FLUID DYNAMICS:
see *Graduate Bulletin*

GERMAN:
see Modern Languages and Linguistics

GERONTOLOGY:
see Social Work

GREEK:
see Classics

GROWTH MANAGEMENT AND COMPREHENSIVE PLANNING:
see Urban and Regional Planning

HEALTH EDUCATION:
see Middle and Secondary Education

HEALTH–RELATED PROGRAMS

Undergraduate

Numerous health-related programs at Florida State University address issues of prevention, treatment, rehabilitation, health sciences, and policy formulation. As part of an effort to develop and promote a coordinated plan for these programs, the following section lists and describes, by program/department, areas of study, services, degrees, and (in some instances) certification opportunities for students. For more detailed information and requirements, see individual program listings in this General Bulletin.

College of Communication and Information

The School of Communication Science and Disorders has a major in speech-language pathology and offers the graduate degrees of Master of Science (MS) and Doctor of Philosophy (PhD). The scope of the School includes the whole of human communication, both normal and disordered. Students learn the total processes of communication, develop analytical and communication skills, and obtain experience in evaluation, treatment, and research. For additional information, please refer to the "School of Communication Science and Disorders" chapter in this *General Bulletin,* e-mail *jennifer.kekelis@cci.fsu.edu*, call *(850) 644-2253,* or visit *http://commdisorders.cci.fsu.edu/*.

The School of Communication Science and Disorders also administers three certificate programs: the Interdepartmental Certificate Program in Developmental Disabilities, the Bilingual Services Delivery undergraduate certificate, and the Graduate Prerequisites (Bridge) Program. The purpose of the Certificate Program in Developmental Disabilities is to provide upper-division undergraduate students from a variety of disciplines with knowledge regarding etiology, assessment, treatment, and policy issues related to individuals with developmental disabilities and their families. Students seeking certification must complete nine semester hours of coursework and three semester hours of practicum from an approved list of courses and practica. Courses are available in the following disciplines: art education; communication science and disorders; family and child sciences; middle and secondary education; music education/therapy; nursing; nutrition, food, and exercise sciences; physical education; psychology; and social work. The 12-credit Bilingual Services Certificate focuses on bilingual service delivery in speech-language pathology. This certificate is specifically designed to equip students working with bilingual children with the foundational knowledge and skills needed to approach clinical practice from an evidence-based mindset. These skills include assessment, treatment plan development, intervention, and plan implementation. The courses are constructed to provide the skills necessary to consume, conduct, and produce research as well as provide clinical service delivery with a focus on bilingual learners in the K-12 setting. All courses focus on topics related to a) cultural responsiveness, b) bilingual assessment, and c) bilingual intervention. An additional certificate program, the Communication Science and Disorders Graduate Prerequisite Program was established to increase access to graduate training programs in Speech Language Pathology. Students with undergraduate degrees in other fields must complete coursework represented by this prerequisite program before beginning graduate study in speech-language pathology at Florida State University or many other programs throughout the nation. This program includes the prerequisite content in a series of six courses offered fully online; two courses each semester. Enrollment may occur at the start of any semester. For additional information, please refer to the "School of Communication Science and Disorders" chapter in the *Graduate Bulletin* or visit *http://commdisorders.cci.fsu.edu/*.

The School of Information administers graduate and undergraduate certificates in Health Information Technology. The twelve hours of coursework required for these certificates prepare students to be leaders in the Health IT field by strengthening skills in information management, technology integration and implementation, information organization, and information leadership. Students gain a detailed overview of health informatics, providing them with an entry point into the industry and with knowledge and skills that will help them integrate emerging technologies into practice. The courses provide a broad understanding of the industry, current issues and events, such as the "meaningful use" of electronic medical records systems, and eHealth approaches for health promotion and patient self-management. For more information, visit *http://ischool.cci.fsu.edu/*.

College of Human Sciences

The Department of Family and Child Sciences prepares students to work with children and families to promote healthy lifestyles and improve the quality of life using research-informed solutions in a variety of health and human service settings. The Family and Child Sciences curriculum provides a functional gateway into a variety of medical and health-related fields: majors go on to be pediatricians, family physicians, nurses, marriage and family therapists, and applied behavior analysts because success in each of these fields requires familiarity with normative development and the complexities of modern family life. The Family and Child Sciences curriculum emphasizes translational family science designed to compress the 17-year gap between scientific finding and implementation of that finding in everyday practice. Whether "everyday practice" takes the form of coordinating a youth mentoring program, delivering family resource management programs to new parents, advising Child Welfare Programs, or providing direct clinical care: everything Family and Child Scientists do is guided by established or emerging empirical evidence.

The Department of Nutrition, Food and Exercise Sciences provides students with a solid foundation in the scientific aspects of nutrition, foods, health-related physical fitness, exercise sciences, sports nutrition, and sports sciences through its bachelor's, master's, and doctoral programs. Students are provided with in-depth study of the role that nutrition and physical activity play both in health and, in particular, the prevention of chronic disease. Any of the majors in the department may be used as pre-medical programs with inclusion of specific electives. For more information concerning pre-medical programs, contact the College of Medicine Pre-health Professions Advising Office at *medinformation@med.fsu.edu* or at *(850) 644-5638*.

Students pursuing a degree in Exercise Physiology combine their study of nutrient metabolism, chemistry, and physiology with courses in exercise physiology and health taught by the department faculty.

The dietetics degree is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and prepares students for a post baccalaureate accredited internship, which is required to sit for the registration examination to become a Registered Dietitian. This program prepares students to apply their expertise in nutrition science and food service management in a variety of employment settings such as hospitals, Health Management Organizations (HMOs), sports nutrition and corporate wellness programs, business and industry, public health, education, research, and private practice.

The food and nutrition science major has a strong science base and prepares students for employment in the food industry, government agencies, and graduate health programs.

The athletic trainer's professional preparation is directed toward the development of specified competencies in the following content areas: risk management and injury prevention; pathology of injuries and illnesses; assessment and evaluation; acute care of injury and illness; pharmacology; therapeutic modalities; therapeutic exercise; general medical conditions and disabilities; nutritional aspects of injury and illness; psychosocial intervention and referral; health care administration; and professional development and responsibilities. Through a combination of formal classroom instruction and clinical experience, the athletic trainer is prepared to apply a wide variety of specific health care skills and knowledge within each of the domains. Students entering the undergraduate program as of Fall 2016 will be required to complete a graduate professional athletic training program in order to become Board of Certification eligible.

College of Nursing

The College of Nursing offers bachelor's and doctoral degree programs. The mission of the College of Nursing is to educate clinicians, leaders, scholars, and advanced practitioners who can enhance the quality of life for people of all cultures, economic levels, and geographic locations. The College of Nursing integrates the liberal arts and sciences with the knowledge, skills, and attitudes essential for lifelong learning, personal responsibility, and sustained achievement in the nursing profession and the communities in which our graduates reside. Information regarding undergraduate programs is available from the Office of Student Services at *(850) 644-3296*. Graduates of the baccalaureate program are prepared for beginning levels of professional practice in a variety of settings. Graduates of the doctoral program are prepared for advanced professional positions. For additional information, please refer to the "Nursing" chapter in this *General Bulletin*, e-mail *info@nursing.fsu.edu*, call *(850) 644-3296*, or visit *http://nursing.fsu.edu/*.

College of Social Sciences and Public Policy

The College of Social Sciences and Public Policy offers the Bachelor of Science in Public Health (BSPH) and the Master of Public Health (MPH) degrees. Graduates will have a rich background in epidemiology, health economics, health behavior, health administration, health policy, and quantitative analytic skills. Careers are likely to include government agency or legislative staff positions, policy and consulting firms, think tanks, advocacy organizations and lobbying firms, international organizations focused on health and population issues, academic or media positions.

The program offers a combined Bachelor of Science/Master of Public Health (BS/MPH) program that makes it possible for college seniors with a 3.0 or higher GPA to enroll in a limited number of graduate level MPH courses as elective hours toward their bachelor's degree. These courses may also count

toward the MPH degree upon later acceptance and enrollment in the graduate program. For additional information, please refer to the "Public Health" chapter in this *General Bulletin*, e-mail *william.weissert@fsu.edu*, call *(850) 644-4418*, come by *211 Bellamy* building, or visit *http://www.coss.fsu.edu/publichealth/*.

College of Social Work

The College of Social Work offers bachelor's and master's curricula that prepare professional social workers for practice with individuals, families, groups, and communities. This versatile and nationally accredited degree enables our graduates to work with diverse population groups in a wide variety of settings. The academic design includes both classroom and field instruction. The college also has a doctoral program that develops social work scholars and leaders in research and teaching.

Social workers are employed in mental health centers, schools, hospitals, home health agencies, runaway shelters, protective services, teen pregnancy programs, battered women's shelters, correctional facilities, family and children's agencies, private and public organizations, hospices, medical clinics, nursing homes, psychiatric facilities, and veterans' and military programs.

Opportunities are also available to expand electronic technology skills for use with clients, participate in ongoing research projects, and become involved in community service activities. All of our classrooms are fully connected with the Internet, and both instructors and students use these resources regularly during class sessions. For information, please refer to the "Social Work" chapter in this *General Bulletin*, e-mail *info@csw.fsu.edu*, call *(800) 378-9550* or *(850) 644-4751*, or visit *http://csw.fsu.edu/*.

HEALTH SERVICES ADMINISTRATION AND POLICY:
see *Graduate Bulletin*

HEBREW:
see Religion

HIGHER EDUCATION:
see Educational Leadership and Policy Studies

Undergraduate Department of HISTORY

College of Arts and Sciences

Website: *http://www.history.fsu.edu*

Chair: Gray; **Associate Chair (Graduate Studies):** Sinke; **Associate Chair (Undergraduate Studies):** Liebeskind; **Professors:** Blaufarb, Frank, Gellately, Grant, Gray, Jones, Stoltzfus; **Associate Professors:** Creswell, Culver, Dodds, Doel, Hanley, Herrera, Koslow, Liebeskind, McClive, Mooney, Piehler, Sinke, Upchurch, Williamson; **Assistant Professors:** Hicks, Ozok-Gundogan, Palmer, Scholz, Wood; **Professors Emeriti:** Anderson, Betten, Bryant, Conner, Garretson, Horward, J. Jones, Jumonville, Keuchel, Moore, Ripley, Rogers, Rubanowice, Singh, Strait, Turner, Wynot

Studying history is exciting and rewarding in itself, but it is also a strategic investment in your future. FSU's history degree provides you with a broad liberal arts education and helps you to become an informed citizen. Students who major in history prepare for their futures by cultivating knowledge, experiences, and skill sets sought after in a range of occupations. A history degree will give you exposure to thought-provoking history courses covering many areas of the world. You can choose courses ranging from bandits to wars, exploring topics such as imperialism, immigration, or terrorism. The history major at FSU prides itself on both its breadth and depth, allowing you to focus on the themes or areas that interest you the most. Completing a degree in history will equip you with world cultural literacy and the tools to compete effectively in today's job market.

History is the best major to acquire and develop the critical-thinking skills that are sought by today's employers and necessary for graduate programs. Throughout your course work you will research, analyze, and communicate your findings. You will decipher unknown materials, contextualize them, and offer coherent analyses of their meaning. You will work alone and in collaboration with other students, conducting semester-long research projects, posing and refining the questions you ask, and presenting—and justifying—your findings in oral and written format to your peers. Employers today are looking for people who can think about and solve problems, do so in a collaborative fashion, have the skills to master digital technologies, and present their findings verbally and in writing. If you enjoy learning about all things historical and are interested in finding employment in the public or private sectors directly after graduation or continuing with graduate school, the history major at FSU is the best option to prepare for your future.

The department participates in the undergraduate programs in Asian studies, Middle Eastern studies, humanities, international affairs, Latin American and Caribbean studies, Russian and East European studies, and in the honors in the major program.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in history satisfy this requirement by earning a grade of "C–" or higher in IDS 2681, HIS 4164, CGS 2060, CGS 2100, or EME 2040.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

History

1. AFH XXXX or AMH XXXX or EUH XXXX or WOH XXXX or LAH XXXX or ASH XXXX or HIS XXXX
2. AMH XXXX or EUH XXXX or WOH XXXX or LAH XXXX or AFH XXXX or ASH XXXX or HIS XXXX

Requirements for a Major in History

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Major

Fall 2012 and After

Thirty-nine semester hours, including WOH 1023, 1030; AMH 2010, 2020 (for the application of test credit to the major, see below); and a minimum of twenty-seven additional semester hours in history (above 2999) distributed as follows:

1. Six semester hours of American history
2. Six semester hours of European history
3. Six semester hours of Latin American, Asian, African, or Russian history
4. Six additional semester hours of history of any area
5. Three semester hours of HIS 4935 Senior Seminar

Note: Senior seminar is not offered during the Summer terms. Directed individual studies and tutorials may not be counted toward the major.

At least twenty-one of the thirty-nine required semester hours must be earned at Florida State University.

Prior to Fall 2012

Thirty-three semester hours, including WOH 1023, 1030; AMH 2010, 2020 (for the application of test credit to the major, see below); and a minimum of twenty-one additional semester hours in history (above 2999) distributed as follows:

1. Six semester hours of American history
2. Six semester hours of European history
3. Six semester hours of Latin American, Asian, African, or Russian history
4. Three semester hours of HIS 4935 Senior Seminar.

Note: Senior seminar is not offered during the Summer terms. Directed individual studies and tutorials may not be counted toward the major.

At least eighteen of the thirty-three required semester hours must be earned at Florida State University.

Minor Requirement for History Majors

A minor of twelve semester hours beyond liberal studies requirements in an approved departmental field or fifteen semester hours in an interdepartmental area is required. Individual departments and interdepartmental areas may impose additional requirements. The student should consult the appropriate departmental chapter of this *General Bulletin* to see if the department has further requirements.

The student may not count toward the major or minor any course in which a grade below "C–" is received. A minimum GPA of 2.0 within both the major and the minor is required.

Double Majors

Students pursuing a double major must meet the program requirements of both majors, with the following exceptions: (1) No more than six semester hours may be overlapped (i.e., counted toward both majors); and (2) no minors are required for the double major.

Test Credit Toward the Major (AP, CLEP, IB)

A student who has earned test credit in American history must not take either AMH 2010 or 2020. A student who has earned test credit in European history must not take EUH 2000, WOH 1023, or WOH 1030. Students with three semester hours of test credit in an area will be required to complete the resulting three semester hour shortfall per area toward the major. For information regarding the fulfillment of this policy, please contact the history department advisor.

Honors in the Major

Honors work in the major is offered to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin* and the associate chairman for undergraduate studies in history.

Certification in Social Science Education with History Concentration

All undergraduates interested in certification in social science education should take the core courses as part of their liberal studies requirements; therefore, they are urged to consult an advisor in the College of Education as early as possible. Students seeking certification must also apply for admission to teacher education. Application forms are obtained from the College of Education's office of student services. A student should have and maintain a 2.75 overall GPA in all courses to be eligible.

Requirements for a Minor in History

Twelve semester hours beyond liberal studies requirements in history courses numbered above 2999 are required. A grade of "C–" or better must be earned in each course counted toward the minor. At least six of the twelve semester hours must be earned at Florida State University. Directed individual studies, tutorials, and test credit may not be counted toward the minor.

Definition of Prefixes

AFH—African History
AMH—American History
ASH—Asian History
CLA—Classical and Ancient Studies
EUH—European History
HIS—General History and Historiography
IDS—Interdisciplinary Studies
LAH—Latin American History
SLL—Slavic Languages
WOH—World History

Undergraduate Courses

Note: History majors must take the sequence of either WOH 1023–WOH 1030 or EUH 2000–WOH 1023 (unless they have test credit in European or world history, or transfer credit equivalent to these courses). Similarly, history majors must take the sequence of AMH 2010–AMH 2020 (unless they have examination credit in any U.S. history, or transfer credit equivalent to these courses.) No other history courses below the 3000-level will count toward the history major.

Liberal Studies for the 21st Century: History Courses

Note: In order to fulfill the liberal studies requirement in history, a student must complete a minimum of three semester hours from this list: AMH 2010, AMH 2020, AMH 2091, AMH 2095, AMH 2096, AMH 2097, AMH 2583; ASH 1044, ASH 3100; EUH 2000, EUH 3205, EUH 3530; HIS 2050, HIS 2370, HIS 3205, HIS 3464, HIS 3491; LAH 1093; WOH 1023, WOH 1030, WOH 2202.

AMH 2010. A History of the United States to 1877 (3). This course introduces students to the history of British North America and the United States through the era of the Civil War and Reconstruction.

AMH 2020. A History of the United States Since 1877 (3). This course surveys the United States from the end of the Civil War to the present with emphasis on social, economic, and political problems of the 20th century. May not be taken by students with test credit in American history.

AMH 2091. The African-American Experience in the United States (3). This course examines, both chronologically and thematically, the experience of African-Americans in the United States and their role in shaping the nation's history. The course does not count as credit toward the history major.

AMH 2095. American Indians in the United States (3). This course surveys American-Indian relations with the people and the government of the United States, beginning in the 1760s and continuing to the present. Topics cover the Indians' diplomatic and military struggles, as well as the Indian perspective on familiar historical events such as the Civil War, the New Deal, and the 1960s.

AMH 2096. Black Women in America (3). This course examines (chronologically and thematically) the unique experience of the African American woman in the United States and the role they have played in shaping this nation's history. Particular attention is paid to the double burden that black women have experienced because of their race and gender. This course does not count as credit toward the history major.

AMH 2097. Nationality, Race, and Ethnicity in the United States (3). This course explores the history of immigration to the United States. Topics include the evolution of ethnic cultures and the role of race in adjustment, and related conflicts from colonial times to the present. The course does not count as credit toward the history major.

AMH 2583. The Seminoles and the Southeastern Indians (3). This course explores the history of the Seminoles and other Southeastern Native Americans in the territory that is now known as the American South. The course covers the pre-contract era to the present with an emphasis on tribal perspectives.

ASH 1044. Middle Eastern History and Civilization (3). This introductory course is on Middle Eastern history and culture with a considerable emphasis on the impact of religion: Christianity, Judaism, and Islam. The primary emphasis of the course is to understand the historical and cultural background of the major problems facing the Middle East today. The course does not count as credit toward the history major.

ASH 3100. History of Asia (3). This course is an introduction to political, cultural, and economic Asian history from antiquity to the present. It places special emphasis not only on the study of important Asian kings and leaders but also on the various religions which originated in Asia.

EUH 2000. Ancient and Medieval Civilizations (3). This course provides a survey of Western traditions from the beginnings through the end of the Middle Ages. Emphasis is on patterns of thinking and on those institutions most distinctive for the Western tradition. Students who have previous college credit in Western civilization courses covering the same general chronological period cannot receive credit for EUH 2000. May not be taken by students with test credit in European history.

EUH 3205. 19th-Century Europe: A Survey (3). This course focuses on the history of Europe from the close of the Napoleonic Wars to the turn of the century, a period in which Europe was at the height of its wealth and power. Particular attention is paid to the major powers.

EUH 3530. England, the Empire and the Commonwealth (3). This course offers a history of the expansion of the British Empire and its evolution into the Commonwealth from the early eighteenth century to the present. It examines the complex set of societies, governing structures, economic systems, and geographic locations encompassed by British overseas expansion.

HIS 2050. The Historian's Craft (3). In this course, students learn how to conduct primary source historical research, and turn their research findings into a high-quality paper based on professional history standards.

HIS 2370. Interpreting Native America (3). This course teaches how to conduct ethnohistorical research on Native Americans in the United States. The course culminates in the annotation and interpretation of a set of primary sources.

HIS 3205. LGBTQ History (3). This course traces the history of lesbian, gay, bisexual, and transgender (LGBT) people in Western Europe and North Amer-ica from the eighteenth century to the present day. The course showcases the historically contingent nature of homosexuality and gender identity, giving particular attention to the ways that sexual identity intersects with race, class, and gender.

HIS 3263. Pirates and Patriots in the Atlantic World (3). This course surveys the connections that together formed an Atlantic world between the Americas, Africa, and Europe in the era from 1500 to 1800. The course focuses upon two foundational patterns: patriotism, and related efforts to build identities, nation-states and empires, and legal/constitutional orders, and piracy, including efforts to detach and/or reconfigure those empires and orders.

HIS 3464. History of Science (3). This course is a study of the mutually-shaping relationships between social and political ideas and the histories of the various sciences.

HIS 3491. Medicine and Society (3). This course examines the development of public health and the history of medicine in the United States from the colonial period to the present. Topics cover changes in medical knowledge, the medical profession, government responsibilities, and public responses; how individuals accept, modify, or reject medical authority; how race, class, gender, and ethnicity shape health practices and the delivery of medical care; how the health of a community can be protected; and what constitutes a public health hazard.

IDS 2156. Environment and Society (3). This interdisciplinary course in environmental history explores numerous diverse perspectives of the environment: history, ethics, literature, art, and, of course, science. The course asks, "What is the relationship between humans and the natural world?" and explores how nature has helped to shape culture as well as how humans have modified the natural world and transformed the land in the process of extracting resources, building structures, producing pollution, and importing exotic species.

IDS 2196. History of American Popular Culture, 1850-Present (3). This course examines the history of American popular culture from 1850 to the present day, focusing on how Americans have used media, athletics, and other leisure activities to grapple with larger questions of national identity and citizenship.

IDS 2199. The American GI in War and Peace in World War II (3). This course examines the social history of the American GI in World War II. It considers who served in the American military, why they fought and coped with the experience of total war. Special attention is given to the religious experiences of the GI at war and issues of race, ethnicity, and gender.

IDS 2376. Who Do The British Think They Are? (3). This course explores the construction and use of the varied notions of national identity and Britishness in modern Britain. Students attempt to understand something of the contested terrain of citizenship and national identity in contemporary Britain by analyzing aspects of identity such as gender, race, class, religion, ethnicity.

IDS 2411. The Italian Mafia: From Corleone to the Globalized World (3). This course takes a multidisciplinary approach, considering the historical determinants of the mafia as presented by the current literature. A major focus is the identification of the root causes of the mafia and the political, social, historical factors that made possible its genesis and development.

IDS 2413. Fight the Power: Protesting with Song in America: 20th Century versus 21st Century (3). This course uses the historical method to discuss major protest movements of the 20th and 21st centuries in United States and delves into the question of how protest through song has changed during the 20th century and how it is used today.

IDS 2414. Making Chief Osceola (3). This course uses the historical method to answer a simple question: Why do Americans and Floridians remember Osceola as the leader of Seminole resistance rather than any of the other more prominent, powerful, and successful leaders from the three Seminole Wars? In addition to introducing new historical approaches to Native American history, this course also asks how historical truths and myths are created, sustained, and ultimately embraced. In the process, the course facilitates critical engagement with the living legacies of Indian Removal.

IDS 2418. Empire and Revolution in Cold War Latin America (3). This course is designed to familiarize students with the history, current state of research, and continued relevance of what historian Greg Grandin terms as Latin America's "long Cold War;" that is, the political, social, and economic history of Latin America after World War II. It pays special attention to issues of revolution and empire, encouraging students to critically explore and engage the intimate connections between the local, national, and transnational manifestations of the Cold War in Latin America.

IDS 2419. Cultures of Medicine (3). This course explores the relationship between various groups of humans and them microbes they encounter.

IDS 2681. Digital Microhistory Lab (3). This course brings together microhistory, urban history, and digital history. Students collect comprehensive data about the events in a single city in a single year, through close reading of an English-language daily newspaper published in that city. They gather much of this data using digital methods and then work together to represent those events in a Web site that employs a variety of digital communication tools.

IDS 3198. Terrorism in Historical Perspective (3). This course examines the history of terrorism as both an idea and a political strategy, with particular focus on the nineteenth and twentieth centuries. It emphasizes the need for understanding terrorism and related forms of political violence within a systematic framework that takes into account the roles of anti-terrorist policies, police activities, and political debate in shaping not only the public perception of terrorism but also the self-perception of those who would adopt it as a tactic.

IDS 3415. Guns, Drugs, and Slaves: The History of Trafficking in the Modern World (3). This course addresses the real world problem of global trafficking in weapons, drugs, and humans. Such trafficking causes tremendous harm in today's world. Employing a variety of approaches from criminology, law, economics, and international relations, the course examines how and why trafficking became embedded in the modern world.

IDS 3435. 'Please Please Me': Anglo-American Youth Culture from the 1950's to the Present (3). This course examines the cultures that young Britons and Americans have produced and shared for nearly a century. Students examine the history, sociology, aesthetics and economics of British youth culture. This course amplifies the creative relationship between music, fashion, cinema, art and design, as well as assess their links with business and the media.

LAH 1093. Latin America: A Cross-Cultural History (3). This course is a cross-cultural history of Latin America focusing on women, Native Americans, African-Americans, mestizos, and mulattoes in historical context. The course does not count as credit toward the history major.

WOH 1023. The Modern World to 1815 (3). This liberal studies course deals with the origins and development of political, economic, social, and intellectual antecedents of the modern world from the end of the Middle Ages to 1815. Students who have previous college credit in Western civilization courses covering the same general chronological period cannot receive credit for WOH 1023. May not be taken by students with test credit in European history.

WOH 1030. The Modern World Since 1815 (3). This liberal studies course deals with the origins and development of political, economic, social, and intellectual antecedents in the modern world since 1815. Students who have previous college credit in Western civilization courses covering the same general chronological period cannot receive credit for WOH 1030. May not be taken by students with test credit in European history.

WOH 2202. Mortal Combat: Eurasian Worlds of War Since 1200 (3). This course familiarizes the student with the role of war and military history in shaping the history of Eurasia since 1200.

African History

AFH 1000. African History and Civilization (3). This introductory course for African history and civilization covers the broad sweep of African history and culture. The primary emphasis is to understand the background to some of Africa's major problems and possibilities today. The course does not count as credit toward the history major.

AFH 4302. North African History: A Survey (3). This course concentrates on the modern history of North Africa including: Maghrib, Morocco, Algeria, Tunisia, Libya, Egypt, Sudan, Ethiopia, and Somalia. It is intended to provide an understanding of the background and problems of North African states today.

American History

AMH 3310. Social History of the United States (3). This course offers an analysis of the day-to-day lives of American people. Topics include morals, manners, religion, family, social class, health, and occupations.

AMH 3351. U.S. Political History to 1877 (3). This course covers the colonial and revolutionary background of U.S. politics. Topics cover U.S. political parties and elections from the 1790s to 1877, emphasizing the presidency and the groups and issues that have influenced political parties.

AMH 3352. U.S. Political History from 1877 to the Present (3). This course studies U.S. political parties and elections from the end of Reconstruction to the present. Special emphasis is placed on the presidency and on the groups and issues that have influenced political parties. AMH 3351 is not a prerequisite for 3352.

AMH 3374. Energy: A History (3). This course offers a historical perspective on the role that technology has played in modern history. It focuses on the American experience from the Colonial period to the present.

AMH 3444. History of the Trans-Mississippi American West (3). This course covers the history of the Trans-Mississippi West during the nineteenth century. Students are expected to develop an understanding of this area as a geographical region and its role in American history beginning with the early nineteenth century explorations and culminating with the symbolic "closing of the frontier" of the 1890s.

AMH 3470. The Evolution of Organized Crime (3). This course discusses the evolution of organized crime in the United States, the social and legal factors that contributed to its development, and the ethnic groups involved.

AMH 3540. Military History of the United States (3). This course is a survey of both the military experiences and issues in American history. The course analyzes war, its economic issues, technological developments, politics, and other factors that have influenced the military aspects of American history.

AMH 3544. The United States and Vietnam, 1941–1975 (3). This course examines the involvement of the United States in Vietnam from World War II through the fall of Saigon in 1975 and considers the legacy of this experience for American foreign relations and society.

AMH 3930r. Studies in U.S. History (3). This course includes examination of a special topic related to U.S. history. Topics vary. The course may be repeated as topics vary to a maximum of nine semester hours.

AMH 4110. Colonial America to 1763 (3). This course studies and compares the founding and development of the English colonies in North America.

AMH 4130. Revolutionary America, 1760-1788 (3). This course examines the political, social, and economic history of British America from the end of the Seven Years War to the ratification of the U.S. Constitution. Emphasis is placed on the origins, course, and aftermath of the colonial rebellion that became the American Revolution and led to the founding of the U.S. The course considers the fundamental causes of the Revolution and the many ways in which the former colonies were transformed by the experience.

AMH 4172. The Civil War Era (3). This course offers an in-depth study of the twenty years from 1845 to 1865. Emphasis is placed on the coming of the Civil War, the secession crisis, and on both the military and nonmilitary events of the war years.

AMH 4220. U.S. Progressive Era, 1890–1920 (3). This course includes a study of the development of domestic and foreign policy, the revolution of social thought, and the paradoxical path of reform in urbanized, industrial America. Emphasis is placed on the nation's effort to accommodate old values with the new realities.

AMH 4231. The United States, 1920–1945: Prosperity, Depression, and World War II (3). This course offers an overview of U.S. history from 1920 through 1945. Topics include political, economic, diplomatic, military, social, and cultural and intellectual developments during that period.

AMH 4270. The United States Since 1945 (3). This course focuses on the political and cultural issues faced by the United States during the period of the Cold War (1945 to 1988). Special attention is given to postwar affluence, suburban America, the mass society, the movement from isolationism to interventionism, McCarthyism, the civil rights movement, social conflict in the 1960s, and the rise of postwar conservatism.

AMH 4273. America in the 1960s (3). This course examines selective aspects of the era known as "the sixties." Spanning two decades, it starts in 1954 with the decision to integrate America's schools as a flash point for the civil rights struggle, and it concludes in 1974 with Richard Nixon's resignation, the final statement in the Watergate affair. During those years of intense and accelerated change, civil rights, black power, the war in Vietnam, radical politics, and the counter culture divided the country so passionately that at times it appeared as though the nation might come apart.

AMH 4331. U.S. Intellectual History I: Beginning to 1880 (3). This course offers an interdisciplinary study of American thought from the Puritans to the late 19th century, asking, among other questions, what mission America assigned to itself. Topics include Puritanism, the Revolutionary ideology, federalism, the American Enlightenment, romanticism, individualism, and manifest destiny.

AMH 4402. The Political History of the South, 1607-1965 (3). This course explores developments in Southern political history from 1607 to 1965, focusing on the role of the region in shaping national debates. It examines the South as a place inhabited by diverse groups of people, as a laboratory for ideas and political theories and institutions, and as a set of ideologies and images that still impact American life.

AMH 4420. The History of Florida (3). This course explores the history of Florida from its pre-Columbian origins to the present.

AMH 4511. Twentieth-Century United States Foreign Relations (3). This course covers the responsibilities of global power and how American foreign policy changed to meet rapidly altering circumstances.

AMH 4530. U.S. Immigration History (3). This course explores the histories of different immigrant and migrant groups and how they have shaped and been shaped by the United States.

AMH 4561. Women in 19th-Century America (3). This course examines the experiences of women in nineteenth-century America, focusing upon the ways gender, race, ethnicity, class, religion, and region interacted to shape women's lives. Examines women's family, work, social, and political roles. Also examines women's contributions and quest for equality.

AMH 4562. Women in Modern America (3). This course examines the experiences and contributions of women in twentieth-century America, with particular attention to the forces that served to differentiate the opportunities and roles of women from those of their male peers.

AMH 4571. Black America to 1877 (3). This course begins with the African background of Black Americans and ends with the final curtailment of Reconstruction in 1877. Although some portions of the course are topical, cutting across chronological divisions, there is a general chronological progression from colonial times to the end of Reconstruction.

AMH 4572. Black America Since 1877 (3). This course traces the social, economic, cultural, and political activities of African-Americans from Reconstruction through the Civil Rights Movement.

AMH 4585. History of the Seminole Indians (3). This course offers an ethnohistory of the Seminole Indians in Florida from prior to their formation, in the eighteenth century, to present. The course focuses on the Indians themselves and their experiences, exposing students to the history of the Seminole's culture, lifestyles, religions, economy, and tribal community.

AMH 4630. North American Environmental History (3). This course introduces the changing relationships between human beings and the natural world in America through time.

AMH 4633. The Nature of Florida (3). This course is an online course that applies the methods and approaches of environmental history to Florida and the southeastern United States.

AMH 4640. Humor and the American Mind (3). This course discusses American intellectual and cultural history from the eighteenth-century to the present, through the lens of humor. It investigates the relationship between American ideas and historical transformations. It uses humor to explore the connections and tensions between the various parts of the American mind.

AMH 4684. Women and Children in the Civil Rights Movement (3). This course examines the role of women and children in the modern day Civil Rights Movement in the United States with the underlying themes of race, class, and gender.

Asian History

ASH 3100. History of Asia (3). This course is an introduction to political, cultural, and economic Asian history from antiquity to the present. It places special emphasis not only on the study of important Asian kings and leaders but also on the various religions that originated in Asia.

ASH 3230r. Middle East Research: An Interdisciplinary Seminar (3–6). This seminar surveys regional studies' methodology by introducing a dozen examples of a domain of Middle Eastern studies (for example, cities, biographies, countries, sect, dialects), using a variety of lecturers and approaches. Students a) become familiar with the particular characters of dozen instances of a Middle Eastern domain, in this way learning something of the diversity of the region, b) encounter a variety of approaches to the study of the region, and c) develop deep knowledge of one instance, which they study over the course of the semester. May be repeated to a maximum of six semester hours.

ASH 3382. The History of the U.S. and East Asia: 1850 to the Present (3). This course investigates the history of the U.S. and modern East Asia from the mid-nineteenth century to the present, covering political interactions and cultural encounters between Americans and Japanese, Koreans, and Chinese.

ASH 3930r. Studies in Asian History (3). This course includes examination of a specific topic related to Asian history. Topics vary. The course may be repeated as topics vary to a maximum of nine semester hours.

ASH 4223. Modern Middle East (3). This course is an examination of modern Middle Eastern history, focusing on the origins of recent problems in the imperialistic era, the clash of political and cultural traditions, national rivalries, the impact of OPEC, the Palestinians, and the Iranian Revolution.

ASH 4261. Central Asia (3). This course covers Central Asian history through the medieval and modern periods, with special emphasis on the political and ethnic histories of the Central Asian peoples.

ASH 4550. Modern India (3). This course is an introduction to the history of India from the 18th century to the present. It deals in depth with the impact of British rule on India and the lives of modern South Asian leaders like Gandhi, Nehru, and Jinnah.

Classical History

Note: The following history courses are offered through the Department of Classics.

ASH 3200. History of the Ancient Near East (3). This course is a survey of the Near East—Anatolia, Mesopotamia, Egypt, the Holy Land—in the ancient period.

CLA 4437r. Studies in Greek History (3). This course focuses on specified periods of Greek history, whether archaic, classical, or Hellenistic. May be repeated to a maximum of six semester hours.

CLA 4447r. Studies in Roman History (3). This course focuses on specified periods of Roman history in the Republic or Empire. May be repeated to a maximum of six semester hours.

EUH 4401. Classical Athens and Sparta (3). This course examines the history of Greece from the beginning to Alexander the Great. Emphasis on the social and political structures of Sparta and Athens.

EUH 4408. The Age of Alexander the Great (3). This course is a study of the Greek world from the death of Socrates (399 B.C.) to the Roman conquest (146 B.C., the sack of Corinth by Mummius).

EUH 4412. The Roman Republic (3). This course is a study of the history of Rome from its foundation (traditionally 753 B.C.) to the fall of the Roman Republic (31 B.C., The Battle of Actium).

EUH 4413. The Roman Empire (3). This course focuses on the Roman Empire from Augustus to Constantine. Emphasis on the evolution from the principate of the early empire to the monarchy of the late empire.

European History

EUH 3205. 19th-Century Europe (3). This course is an introduction to key themes and problems in the social, political, and cultural history of Europe from the era of the French Revolution to the outbreak of World War I. Although this is an upper-level course, no prior background in European history is required.

EUH 3206. 20th-Century Europe: A Survey (3). This course covers European history from the turn of the century through the two world wars. Particular attention is paid to the major powers in this period when Europe declined from its preeminent position.

EUH 3293. Twentieth-Century Europe Through Film (3). This course uses film in combination with texts to introduce questions about some of the main themes in 20th-century European history. The course uses film to explore the relationship between modernity and 20th-century Europe, particularly the changing relationship of individuals to state and society, and attitudes about ethnicity, class, and gender. Topics include the possibilities and limitations of the individual in mass society, paying particular attention to themes of heroism, despotism, war, and lifestyle values.

EUH 3431. Modern Italy (3). This course traces the development of Italy from the Enlightenment to the present. Discussions concentrate on the major social, political, and intellectual currents, centering on the unification movement, the crisis of the Liberal State, and Fascism.

EUH 3461. German History, 1740–1918 (3). This course examines the political, social, and cultural history of the German lands from the age of Enlightenment to the end of World War I. It emphasizes the impact of war and revolution on the process of nation-building and the persistence of political, social, and religious conflict after the foundation of the German Empire under Bismarck.

EUH 3530. England, the Empire and the Commonwealth (3). This course offers a history of Great Britain and the Empire-Commonwealth since 1783 and developments within the Commonwealth itself. Some consideration is given to post–World War II changes within Britain and to Britain's foreign affairs.

EUH 3533. History of Ireland (3). This course surveys the history of Ireland from prehistory and the Celtic-Gaelic settlement to the near-present. Examines the waves of settlers who came to the island since the Celts, and the problem of defining the Irish (i.e. the roles of religion and ethnicity). It cannot avoid treating in depth the tangled and tragic relations of the Irish with the kingdom of England, later Great Britain.

EUH 3571. Russia to Nicholas I (3). This course explores Russian history from the emergence of the Muscovite state through the establishment of the Romanov dynasty, to the reforms of Peter the Great and the enlightened despotism of Catherine the Great, and finally the nature of the state in the early nineteenth century.

EUH 3930r. Studies in European History (3). This course includes examination of a special topic related to European history. Topics vary. The course may be repeated as topics vary to a maximum of nine semester hours.

EUH 4121. Earlier Middle Ages (3). This course provides a survey of European history from c. 300 to c. 1150, from the origins of the medieval world in the Roman, Christian, and Germanic past through the gradual emergence of a distinctively European civilization to its first major period of expansion and accomplishment.

EUH 4122. Later Middle Ages (3). This course provides a survey of European history from c. 1150 to c. 1500, from the height of medieval civilization in Europe through the crises of the late Middle Ages to the recovery leading to a new age.

EUH 4124. The Crusades (3). This course provides a historical understanding of the material and spiritual basis for the reentry of Western Christendom into the Mediterranean world; the ways in which Crusaders organized, financed, and participated in Crusades and the impact this had on European institutions and thought; and the interrelations of Christians (East and West) and the Muslim world in the period of the Crusades.

EUH 4140. Renaissance (3). This course is a study of the character of medieval Italy and a survey of economic, political, and cultural changes in Western Europe.

EUH 4144. Reformation (3). This course is an examination of the Protestant and Catholic Reformations in Europe from 1517 to the Peace of Westphalia in 1648.

EUH 4241. The Holocaust in Historical Perspective (3). This course details the background and career of the Holocaust as well as the continuing problem of "Holocaust denial." Special emphasis is given to the ideas of such racists as de Gobineau and Hitler.

EUH 4242. World War I: Europe, 1900-1918 (3). This course covers European history in the period 1900-1918 with a review of the domestic situation and foreign policy of the major Continental powers. It includes an analysis of the origins of the war, how and why the war was fought as it was, and the experience of the major powers on the home front.

EUH 4282. Europe Since 1945 (3). This course focuses on the post–World War II era in Europe, tracing occupation policies, the division of Europe East and West, the development of the major European states, and the efforts to arrive at detente in respect to East-West tensions.

EUH 4331. East Central Europe, 1815 to Present (3). This course examines the social, political, economic, and cultural development of the lands traditionally known as Poland, Hungary, Czechoslovakia, and the Baltic States from the Congress of Vienna to the present. Wherever possible, attempts are made to present issues within a comparative framework.

EUH 4332. Balkans Since 1700 (3). This course on Balkan history emphasizes the penetration of the Hapsburg and Russian empires, the decay of the Ottomans, and the emergence of the Balkan states after the wars of liberation, with stress on the cultural peculiarities of the various ethnic groups.

EUH 4452. The Age of the French Revolution, 1715–1795 (3). This course is a study of the 18th century and its transformation by the forces unleashed by the French Revolution. The radicalization of the Revolution is traced to the Terror and the overthrow of Robespierre's dictatorship.

EUH 4454. Napoleonic Europe, 1795–1815 (3). This course traces the rise of Napoleon and his impact—political, social, economic, military, etc.—on France and Europe, culminating in his defeat at Waterloo.

EUH 4465. Weimar and Nazi Germany (3). This course examines the background of the Nazi regime, the character of Hitler's dictatorship, and the origins and course of WWII in its European context. Also examined is National Socialism's impact on German institutions and racial consequences.

EUH 4502. England Since 1870 (3). This course explores the history of Great Britain (since 1870) from a great world power to a European Common Market member. Economic, diplomatic, imperial, social, and political affairs are considered.

EUH 4512. Stuart England (3). This course covers the history of England from the reign of James I to the death of Queen Anne in 1714. Scottish history is covered as well, and due attention is given to Irish history and to such areas as the arts, literature, and political theory.

EUH 4520. England, 1714–1870 (3). This course investigates the social, cultural, and political history of Great Britain from 1714 to approximately 1870. Major themes include the evolution of social structures; new cultural trends; changing political culture, ideologies, and institutions, as well as the relationship between these perspectives.

EUH 4544. Sex and Class in England, 1750–1914 (3). This course offers students a perspective on the critical relations between class and gender in industrializing England, 1750–1914. Examines the lives and activities of English women, from the poorest to the wealthiest classes, against the background of the major dislocations occurring in British society during this period.

EUH 4574. 19th-Century Russia (3). This course is an examination of the history of Russia from 1801 to the beginning of the 20th century, with emphasis on foreign relations and the development of the political and social conflicts that resulted in the revolutions of 1917.

EUH 4576. 20th-Century Russia (3). This course examines the social, economic, cultural, and international, as well as political, development of Russia from the final years of Tsarist rule through the Bolshevik Revolution to its emergence as one of the world's superpowers in the 1990s.

EUH 4602. European Intellectual History, 1500–1800 (3). This course explores the history of ideas documenting transition from "Medieval Mind" to "Modern Mind," including impact of four Renaissances, Protestant Reformation, Scientific Revolution, and Age of Enlightenment. Interdisciplinary approach includes philosophy, literature, art, political theory, science, economic thought, religion, and music.

EUH 4603. European Intellectual History, 1800 to Present (3). This course explores the history of ideas in the last two hundred years, exploring the 19th century as the Age of "Isms" (including Liberalism, Conservatism, Communism, Romanticism, Idealism, Nationalism, Industrialism, Imperialism, Positivism, Darwinism, Historicism) and establishing the 20th century as the Age of Crisis in which traditional Western Civilization disintegrates.

HIS 4250. War and the Nation State (3). This course examines the phenomenon of war in its broader social-political-economic context from a historical and comparative perspective.

HIS 4260. War and Society in the Age of Revolution (3). This course offers an overview of the interaction between war, social change, and political transformation during the Age of Revolution (1750-1850) in the Atlantic World.

SLL 3500. Slavic Culture and Civilization (3). This course examines the Slavic peoples, their cultures and traditions, from prehistory to present day. The nations profiled are Ukraine, Czech Republic, Poland, Croatia, Bosnia, and Serbia. Novels and film give students a perspective from the "inside." Taught in English.

WOH 4222. The Worlds of Captain Cook (3). This course explores the social and cultural worlds of the great 18th-century British navigator, James Cook. Specifically, the course explores the places where Cook went, the social world of the British Navy, the ethnohistorical dynamics of British-Native interactions in the Pacific, as well as Cook's legacy for the British and for the peoples of the Pacific.

Historical Administration

HIS 4065. Public History Theory and Methods (3). This course offers an overview of the different specialties of public history, the historic preservation movement in the US, archives, history museums, oral history, commemoration, and the use of new media for public presentations of history.

HIS 4164. Digital History (3). This course examines the theory and practice of the ways in which history is collected, preserved, and interpreted using digital mediums.

Latin American History

LAH 3411. History of Mexico, Central America, and the Caribbean (3). This course covers the history of Mexico, Central America, and the Caribbean nations of Cuba, Dominican Republic, Haiti, and Puerto Rico from the Indian civilizations of the remote past to the social conflicts of the present.

LAH 3456. History of Panama Since 1940 (3). This course covers the history of Panama from 1940 to the present. Emphasizes the impact of WWII, politics, social change, and democracy in Panama.

LAH 3500. History of South America (3). This course is an introductory survey from the Inca Civilization to modern Chile, Peru, Argentina, etc. Emphasis is placed on the contrasts and conflicts between Indian and European culture and on basic social, economic, and political evolution. The persistence of "underdevelopment" and poverty are also explored.

LAH 3734. Latin American History Through Film (3). This course is an introduction to Latin American history through films. Analysis of how Latin Americans are portrayed in international and national cinema. Integration of television and literature to illustrate the impact of mass media on Latin Americans.

LAH 3930r. Studies in Latin American History (3). This course includes examination of a special topic related to Latin American history. Topics vary. The course may be repeated as topics vary to a maximum of nine semester hours.

LAH 4430. History of Mexico (3). This course covers the history of Mexico from the great Indian empires to the present, emphasizing the 19th and 20th centuries. Deals with cultural and social history as well as political movements.

LAH 4470. History of the Caribbean (3). This course focuses on Cuba, Puerto Rico, and other Caribbean societies. European and United States colonialism and local Caribbean forces are studied to help understand the area's social, economic, and political problems and prospects.

LAH 4600. History of Brazil (3). This course focuses on Latin America's largest and most populous nation. Themes include the evolution of Brazil's multi-ethnic society, the struggle for economic development, and the search for a viable political regime.

LAH 4723. Race and Class in Colonial Latin America (3). This course is a comprehensive examination of Latin America from 1492 to 1830, with emphasis on native and African reactions to colonial rule and the creation and growth of multi-ethnic groups and their solidification into classes.

LAH 4748. Social Revolutionary Movements in Latin America (3). This course is a thematic coverage of the history of social revolutionary movements in Latin America, using specific case studies drawn from, among others, the Mexican, Bolivian, and Cuban revolutions.

Others

HIS 3205. LGBTQ History (3). This course traces the history of lesbian, gay, bisexual, and transgender (LGBT) people in Western Europe and North America from the eighteenth century to the present day. The course showcases the historically contingent nature of homosexuality and gender identity, giving particular attention to the ways that sexual identity intersects with race, class, and gender.

HIS 3464. History of Science (3). This course is a study of the mutually-shaping relationships between social and political ideas and the histories of the various sciences.

HIS 3505. Perspectives on Science and Mathematics (3). This course examines the interrelationship between science, mathematics, and society from the time of the Babylonians to the present day, and how these lessons related to placing the secondary math and science curriculum into historical context.

HIS 4070. Oral History (3). This course exposes students to the use of oral history as a research technique and provides experience in conducting professionally acceptable oral history interviews. The course does not count as credit toward the history major.

HIS 4080. Managing Archives and Historical Records (3). This course examines the nature of archives; various types of records; arranging and processing archives; restoring and protecting records; archival institutions, policies, and procedures. The course does not count as credit toward the history major.

HIS 4086. Preserving Historic Sites and Spaces (3). This course focuses on the identification, preservation, and maintenance of historic sites; the historic preservation movement. The course does not count as credit toward the history major.

HIS 4906r. Directed Individual Study (1–4). May be repeated to a maximum of twelve semester hours. This course does not count as credit toward the history major or minor.

HIS 4930r. Special Topics in History (3). This course includes specialized approaches to history. Topics vary. The course may be repeated for different topics to a maximum of twenty-four semester hours.

HIS 4935. Senior Seminar (3). This course is an advanced training in historical methods and historiography. The historical material varies from seminar to seminar depending upon the instructor's area of expertise.

HIS 4936r. Honors Work (1–6). This course is open to participants in the University's and departmental honors program. The student must complete six thesis hours. The course does not count as credit toward the history major. May be repeated to a maximum of six semester hours.

HIS 4944r. Undergraduate History Internship (3). (S/U grade only.) This course provides students with the opportunity to engage in a formative active learning experience: working in a cultural institution that collects, preserves, and presents history for general audiences. It exposes students to the diversity of possible career paths related to the field of public history. May be repeated to a maximum of six semester hours.

WOH 3930r. Studies in World History (3). This course includes examination of a special topic related to world history. Topics vary. The course may be repeated as topics vary to a maximum of nine semester hours.

WOH 4244. World War II (3). This course deals with World War II on a global basis while avoiding the common Eurocentric approach. It also analyzes the character of the Pacific theater as well as that of the European war, presenting the student with insights into and contrasts between the various belligerents.

Graduate Courses

American History

AMH 5177. The Civil War Era (3).
AMH 5239. The United States, 1920–1945: Prosperity, Depression, and World War II (3).
AMH 5336. U.S. Intellectual History I: Beginning to 1880 (3).
AMH 5404. The Old South (3).
AMH 5426. The History of Florida (3).
AMH 5567. Women in 19th-Century America (3).
AMH 5576. Black America to 1877 (3).
AMH 5577. Black America Since 1877 (3).
AMH 5636. North American Environmental History (3).
AMH 5637. The Nature of Florida (3).
AMH 6379. Technology in America (3).

Asian History

ASH 5266. Central Asia Since the Mongols (3).

Classical History

Note: The following history courses are offered by the Department of Classics.
CLA 5438r. Studies in Greek History (3).
CLA 5448r. Studies in Roman History (3).

European History

EUH 5246. World War I: Europe, 1900–1918 (3).
EUH 5338. History of East Central Europe, 1815 to the Present (3).
EUH 5365. The Balkans Since 1700 (3).
EUH 5458. Napoleonic Europe, 1795–1815 (3).
EUH 5578. 19th-Century Russia (3).
EUH 5579. 20th-Century Russia (3).
HIS 5265. War and Society in the Age of Revolution (3).

Historical Administration and Public History

HIS 5067. Public History Theory and Methods (3).
HIS 5082. Managing Archives and Historical Records (3).
HIS 5083. Preserving Historic Sites and Spaces (3).
HIS 5085r. Internship in Historical Management (3–6). (S/U grade only.)
HIS 5089r. Historical Administration and Public History Capstone Research Project (1–6). (S/U grade only.)
HIS 5165. Digital History (3).
HIS 6087. Exhibiting History (3).

Latin American History

LAH 5475. History of the Caribbean (3).
LAH 5749. Social Revolutionary Movements in Latin America (3).

World History

WOH 5246. World War II (3).

Others

HIS 5077. Oral History (3).
HIS 5909r. Directed Individual Study (1–4). (S/U grade only.)
HIS 5911r. Supervised Research (1–5). (S/U grade only.)
HIS 5932r. Graduate Tutorial in History (1–2).
HIS 5935r. Special Topics in History (3).
HIS 5940r. Supervised Teaching (1–5). (S/U grade only.)
HIS 6059. Historical Methods (3).
HIS 6909r. Directed Individual Study (1–4). (S/U grade only.)
HIS 6934r. Special Topics in History (3).
HIS 6941. Teaching History at the College Level (3).
WST 5934r. Topics in Women's Studies (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

HISTORY AND PHILOSOPHY OF EDUCATION: see Educational Leadership and Policy Studies

Undergraduate Program in HISTORY AND PHILOSOPHY OF SCIENCE

College of Arts and Sciences

Website: *http://hps.fsu.edu/*
Director: Michael Ruse

Florida State University offers a program in the history and philosophy of science, leading to an undergraduate minor or a master's degree. The focus of the program is on the biological sciences, although we welcome applications from potential students interested in other areas of science. We take very seriously the importance of working on topics of relevance to the society in which we live, and we are strongly committed to an interdisciplinary approach, with involved faculty drawn broadly from across the University, especially the humanities and the natural sciences.

As a major university, we are able to offer opportunities for study and research in topics of particular pertinence to our region, such as racial issues, conservation and problems of pollution, and clashes between science and religion. We also have major strengths in other areas, including logic and formal methods, social philosophy, intellectual and cultural history, history of the South, African American history, ancient science and mathematics, as well as evolution and ecology.

FSU has attractive competitive scholarships, and there are opportunities for research and teaching assistantships that include remission of tuition. Strong library facilities exist, and we are building further on these. We are committed to helping our students when they complete their degrees, either to further graduate work or to enter the work force. The master's degree with its multidisciplinary breadth is appropriate for those interested in pursuing a Doctor of Philosophy (PhD) in philosophy, history, religion, or biology. It is also suitable for those undergraduates who would like to combine it with one of the traditional disciplines in our combined bachelor's-master's program. In all cases, we will aim to tailor individual course programs to suit students' needs.

The program hosts an annual conference or workshop supported by the Werkmeister Fund. Those interested in learning more about the degree, or in enrolling, should consult our Web site and contact the office of the Director.

Requirements for the Minor

The minor is twelve semester hours and must include one philosophy of science course and one history of science course, or equivalent.

If used to fulfill the HPS minor, none of these courses may also be used to fulfill liberal studies or major degree requirements.

Some of these courses have prerequisites; students should check with the department that offers the course. A grade of "C–" or better must be earned in each course. Listed below are some of the classes that may be used to fulfill the minor. This is by no means an exhaustive list of all possible courses one can take to fulfill the minor requirements. Students should contact Shannon Tucker in the History and Philosophy of Science Program at *(850) 644-9121* or by e-mail at *srtucker@fsu.edu* with questions about any other possible courses that may be used to fulfill minor requirements. Descriptions of the course suggestions listed below may be found in the individual department chapters of this *General Bulletin*.

AMH 4630 North American Environmental History (3)
AMH 4634 Florida Environmental History (3)
ANT 2511 Introduction to Physical Anthropology and Prehistory (3)
ANT 4553 The Great Apes (3)
ANT 4586 Human Evolution (3)
BSC 1005 General Biology for Non-Majors (3)
BSC 2010 Biological Science I (3)
HIS 3464 History of Science (3)
HIS 3491 Medicine and Society (3)
HIS 4930 Special Topics in History (3)
ISC 3076 Science, Technology, and Society (3)
PCB 3043 General Ecology (3)
PCB 4674 Evolution (3)
PHI 2100 Reasoning & Critical Thinking (3)
PHI 2620 Environmental Ethics (3)
PHI 3130 Introduction to Symbolic Logic (3)
PHI 3400 History and Philosophy of Science (3)
PSB 2000 Intro to Brain and Behavior (3)
PSB 4461 Hormones and Behavior (3)
REL 3145 Gender and Religion (3)

REL 3180 Bioethics (3)
REL 3493 Religion and Science (3)
REL 4359 Special Topics in Asian Religions (3)

Note: Additional prerequisites or corequisites for these courses may be required by the respective department in which they are offered. Please see the course listings found in the academic department sections of the current graduate or undergraduate edition of this *General Bulletin*.

Definition of Prefixes

HPS—History and Philosophy of Science

Undergraduate Courses

HPS 3320. Screening the Scientific Life: Cinema and the Cultural Image of Science (3). This course examines how cinema has provided a unique framework for wrestling with the implications of the modern scientific enterprise, examining how easily scientific rationality can be harnessed to both moral and immoral ends and what kind of world that science has produced. By probing a variety of genres - including biography, documentary, historical drama, science fiction, political satire, and horror - this course observes the cinematic and cultural desire to make sense of science. A critical element of the course is diversity in the Western culture through the lens of race, class, gender, and ethnicity.

Graduate Courses

HPS 5900r. Directed Individual Study (1–4). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Dedman School of HOSPITALITY

Undergraduate Programs

Website: *http://dedman.fsu.edu/*

Director and Robert H. Dedman Professor: Don Farr; **Professors:** Bonn, Harris, Kim; **Associate Professors:** Ohlin, Hanks, Line; **Assistant Professors:** McGinley, Dogru; **Teaching Faculty III:** Farr; **Teaching Faculty I:** Johnson, Lewis, Weston; **Robert H. Dedman Professor of Hospitality Management: Farr; Robert H. Dedman Professor in Service Management:** Bonn; **Robert H. Dedman Professor in Hospitality Management:** Kim; **Bessie Morgan Marshall Professor in Hospitality Management:** Harris

Established in 1947, the Dedman School of Hospitality (DSH) is the second oldest U.S. hospitality management program of its kind in a public university. The program is regarded by industry recruiters as one of the most highly respected, offering domestic and international studies focusing on luxury resort and lodging management, restaurant and fine dining management, beverage management, event management and private club management.

The Dedman School is a free-standing academic unit of Florida State University, offering both a major in Hospitality and Tourism Management and a major in Global Club Management and Leadership as options within its Bachelor of Science in Hospitality Management degree. The school is a favored hiring source for managers of the world's leading hotels, restaurants, clubs and resorts. School administrators and faculty members work with top industry organizations, executives, and alumni to provide students with a relevant curriculum, valuable internship experiences, and networking/mentorship opportunities. Graduates are prepared to fill the growing global demand for multicultural awareness in hospitality managers and experience high industry placement rates.

The school's internship program encourages experiential learning as a complementary approach to classroom education. It offers established internships across the U.S. and those with world-class operations in many other countries, such as in Ireland and Australia. Students are also encouraged to enrich their global education through the Dedman School's Leysin, Switzerland and Nice, France Study Abroad Program.

Networking and leadership opportunities are available through student organizations — such as the Club Manager Association of America, Eta Sigma Delta, and the Florida Restaurant & Lodging Association — and through numerous events held at the school. The Dedman School's unique curriculum parallels requirements for membership in Florida State's elite Garnet & Gold Scholar Society, thereby supporting student leaders.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in hospitality and global club management satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 or CGS 2518.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Hospitality Administration/Management

1. ECO X013 or ECO X023
2. HFT X000 or HFT X003

Requirements for a Major in Hospitality Management

All students must complete:

1. the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*

2. the common program prerequisites for hospitality management majors
3. the major area requirements for hospitality management majors

Hospitality and Tourism Management Major Area Requirements

All hospitality management majors must complete the courses listed below with a grade of "C–" or better in each course used to satisfy the hospitality management upper-level course requirements.

HFT 3424 Hospitality Financial Analysis (3)
HFT 3431 Hospitality Managerial Accounting (3)
HFT 3603 Law for Hospitality Operations (3)
HFT 3806 Introduction to Food and Beverage Management (3)
HFT 4224 Hospitality Leadership and Ethics (3)
HFT 4253 Lodging and Luxury Hotel Management (3)
HFT 4471 Managing Revenues and Expenses (3)
HFT 4502 Integrated Marketing for Hospitality (3)
HFT 4802 Catering Management (3)

Hospitality Management majors must complete a minimum of three credit hours of **HFT 3941** (Management Internship). Majors may complete additional credit hours (up to twelve total) of **HFT 3941** (Management Internship) and use them as substitutes for elective requirements (listed below). Students must have a total of twelve credit hours from **HFT 3941** and elective requirements.

Hospitality Electives:

HFT 1000 Introduction to Hospitality and Tourism Management (3)
HFT 2060 Coffee and Tea (3)
HFT 2061 Ales, Lagers, and International Culture (3)
HFT 2062 International Wine and Culture (3)
HFT 2063 Distilled Spirits (3)
HFT 2080 International Protocol on Western Behavior and Service Standards (3)
HFT 2452 Hospitality Supply Management (3).
HFT 2716 International Travel and Culture (3)
HFT 2890 International Food and Culture (3)
HFT 3100 Introduction to Global Club Management (3)
HFT 3101 Global Club Operations and Governance (3)
HFT 3240 Managing Service Organizations (3)
HFT 3270 Resort Operations (3)
HFT 3272 Senior Services Management (3)
HFT 3275 Resort Development (3)
HFT 3519 Conventions Services and Events Management (3)
HFT 3542 Event Management (3)
HFT 3700 Tourism Management and the Environment (3)
HFT 4064 Ales, Lagers, and Culture (3) **Note:** Students must be twenty-one years of age to take this course.
HFT 4104 Global Impacts and Sustainability in the Club Industry (3)
HFT 4205 Conversational Spanish for Hospitality Managers (3)
HFT 4866 Wine and Culture (3) **Note:** Students must be twenty-one years of age to take this course.
HFT 4905 Directed Individual Study (1–3)
HFT 4930r Special Topics in Hospitality Administration (1–3)

Students enrolled in the Dedman School of Hospitality must complete a professional management internship towards at least one thousand hours of professional industry work experience in the hospitality industry. The work experience must be completed at the post-secondary level. Students must register for **HFT 4941 (**Field Study in Hospitality Administration) in their final semester to document this work experience.

Students needing elective hours to satisfy the University 120 total hours requirement are encouraged to select additional electives from the above list of courses. Please note that these courses may not be offered every semester.

Requirements for a Major in Global Club Management and Leadership

All students must complete:

1. the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.
2. the common prerequisites for hospitality management majors
3. the major area requirements for hospitality management
4. the major area requirements for global club management majors

Global Club Management and Leadership Major Area Requirements

All Global Club Management and Leadership majors must complete the courses listed below with a grade of "C–" or better in each course used to satisfy the hospitality management upper-level course requirements.

HFT 1350 Golf for Business and Life (1)
HFT 2716 International Travel and Culture (3)
HFT 3100 Introduction to Global Club Management (3)
HFT 3101 Global Club Operations and Governance (3)
HFT 4104 Global Impacts and Sustainability in the Club Industry (3)

Additional Requirements:

1. Global Club Management and Leadership majors are required to complete six months of approved internship. Internships must be approved by the Director of Global Club Management and Leadership.
2. Global Club Management and Leadership majors are required to complete a global component to include one of the following: International Internship, Study Abroad Experience with FSU International Programs, a Domestic Internship with a multinational corporation, or completion of the FSU *Global Citizenship Certificate* program.
3. Global Club Management and Leadership majors are required to meet a foreign language component through proof of proficiency in a second language or successful completion of one semester of a second language.
4. Attendance and/or participation in a minimum of six industry events is required. These may include but are not limited to: Club Management Association or America (CMAA), National Student Conference, CMAA World Conference, PGA Merchandise Show, CMAA FSU Student Chapter Club Tour Events, and Dedman Schools of Hospitality Leadership Summit.

European Summer Study Program

Combining accelerated classroom instruction with travel and on-site observation of industry operation, the program achieves an ideal educational balance. Classes are taught in English by Florida State University faculty. The following topics of the HFT 4930r, Special Topics in Hospitality Administration, are offered: (a) European Food and Wine, (b) European Travel and Tourism, (c) International Hotel Administration, as well as (d) Special Studies in International Hospitality Administration.

Courses completed in this program count toward the state of Florida requirement that at least nine semester hours be completed in the Summer term at one of the State University System senior institutions. Only two courses completed in this program can count towards completion of the Minor in Hospitality Management.

Minor in Hospitality Management

Students may receive a Minor in Hospitality Management by completing twelve semester hours as follows: HFT 1000, HFT 3240, and any two of the following courses: HFT 2060, HFT 2061, HFT 2062, HFT 2063, HFT 2080, HFT 2452, HFT 2716, HFT 2890, HFT 3519, HFT 3542, HFT 3700, HFT 4064, HFT 4930r, or HFT 4866. Students must earn a minimum grade point average of 2.0 in the courses used to satisfy the hospitality management minor requirements.

Definition of Prefixes

HFT—Hospitality Management

Undergraduate Courses

HFT 1000. Introduction to Hospitality and Tourism Management (3). This course offers an introductory review of the segments, disciplines, career opportunities, and current issues in the hospitality industry.

HFT 1350. Golf for Business and Life (1). (S/U grade only.) This course is designed for students who have never experienced the game of golf. Students learn the basics of the game in a casual, fun environment. This course counts as credit for a physical education activity course.

HFT 2060. Coffee, Tea, and International Culture (3). This course is an introduction to coffees and teas of the world with a focus upon their importance to global cultures found in many regions. Students learn about these beverages and their unique interrelationship with their regional culture, heritage, and environment. Each beverage focuses upon specific regions of the world.

HFT 2061. Ales, Lagers and International Culture (3). This course is an introduction to ales and lagers of the world with a focus upon their importance to global cultures found in many regions. Students learn about these regional beers and the interrelationship with their culture, including food, heritage, and festivals.

HFT 2062. International Wine and Culture (3). This course provides an introduction to wines of the world with a focus upon the importance to global cultures. Students learn about these regional wines and the interrelationship with their cultures and heritage.

HFT 2063. Distilled Spirits and International Culture (3). This course is an introduction to distilled spirits of the world with a focus upon their importance to global cultures found in many regions. Students learn about these regionally distilled beverages and their interrelationship with their culture, heritage, and environment. The course presents distilled spirits from various regions and countries of the world representing the USA, Canada, South and Central America, Asia, Europe, Africa and the Middle East, among others.

HFT 2080. International Protocol on Western Behavior and Service Standards (3). This course is designed to explore the diverse verbal and non-verbal Western cultural habits, dress, behaviors, beliefs, service delivery expectations, and codes of conduct compared to the cultural mores, dress, traditions, political structure, behaviors (both verbal and non-verbal), travel, service delivery styles, and expectations of people from various international cultures.

HFT 2452. Hospitality Supply Management (3). This course introduces the importance of how proper hospitality supply management can lead to hospitality business success. Understanding the relationship between what supplies are needed, negotiations, and bidding processes for obtaining competitive pricing, balancing inventory with consumer demand, developing and maintaining business relationships through the supply chain, and the proper sales process are emphasized in this class content. The course is open to all majors within the university.

HFT 2716. International Travel and Culture (3). This course introduces students to contemporary tourism through a geographical and multicultural perspective of worldwide travel. The course emphasizes the most popular travel destinations and provides information about the physical and cultural characteristics of major cities, states, and countries. The course offers basic facts about travel destinations, the environment, and the people of many regions around the world, and it presents the nature of cultural diversity reflecting both Western and non-Western cultures with special emphasis on ethnic background, race, religion, values, tradition, language, material goods, and inter-relationships among local cultures.

HFT 2890. International Food and Culture (3). The course is designed to explore the world's cuisines with a focus on the history of culinary arts, indigenous ingredients, customs, protocol, celebrations, religions, and various cooking methods and terminology.

HFT 3100. Introduction to Global Club Management (3). This course is designed to allow the student proper exposure to the expanding global club and golf resort management industry. The course highlights career paths, identifies various types of clubs throughout the world as well as discusses the evolution of private clubs and the direction they are headed in the years to come.

HFT 3101. Global Club Operations and Governance (3). Prerequisite: HFT 3100. This course is designed to provide an in depth understanding of how global club and golf resort facilities operate to remain sustainable in both the U.S. and international markets. Emphasis is placed on the club governance, management and leadership models, and the operation of various business units within a club and golf resort.

HFT 3221. Human Resource Management in Hospitality Operations (3). This course offers an analysis of human-resource issues in the hospitality industry such as staffing, training, appraisal, wage and hour administration, discrimination, harassment, and other governmental issues.

HFT 3240. Managing Service Organizations (3). This course presents service management from an integrated viewpoint with a focus on customer satisfaction. The course material integrates operations, marketing, strategy, information technology, and human resources. This course addresses the concept of quality, and intends to fine tune students' managerial skills.

HFT 3242. Communication in Hospitality (3). This course familiarizes students with the principles of communication in the hospitality and tourism industries, and maximizes students' confidence when communicating in the hospitality environment. The topics and activities inspire students to deliver excellent customer service focusing on three overall mediums of communication: written communication, oral communication, and generational communication.

HFT 3270. Resort Operations (3). This course examines the unique and dynamic components of resort operations. Students study various types of resorts, lodging/F&B operations, retail/commercial leasing, community relations, real estate, and other key resort areas.

HFT 3272. Senior Services Management (3). This course explores the planning, development, operation, and management of retirement facilities. Explores the various types of senior living facilities, including multi-level, independent, assisted living, and skilled-nursing care centers.

HFT 3275. Resort Development (3). This course offers contemporary knowledge and understanding of concepts, challenges, and trends associated with resort development to include an in-depth examination of the process of resort development from property site identification, land acquisition, zoning and permitting, environmental impact statements (EIS), layout and design issues, construction processes, pre-opening, public relations and marketing, as well as many other issues.

HFT 3277. Club Management (3). This course focuses on the development and management of clubs, including golf course operations, organizational and financial structure, membership and guest relations, design, and other amenities.

HFT 3424. Hospitality Financial Analysis (3). Prerequisites: ACG 2021 and ECO 2023. This course is a detailed analysis of food, beverage, labor, and cash controls. In-depth purchasing component including furniture, fixtures, and equipment (FF&E). Computer usage in labor control, cost analysis, and marketing mix analysis. A systems approach to management of quality through the design of appropriate controls.

HFT 3431. Hospitality Managerial Accounting (3). This course provides students with the basic knowledge of managerial accounting principles in a hospitality environment.

HFT 3515. Resort Marketing and Social Media (3). This course examines resort marketing of service industries within the context of social media and how it is used to implement service strategies for resorts. This course is designed to provide students with fundamental resort marketing information combined with social media applications which enable them to establish promotional programs and develop, implement, and evaluate strategic marketing plans resorts.

HFT 3519. Convention Services and Event Management (3). This course provides a comprehensive approach to managing, marketing, and planning conventions, special events, and conferences.

HFT 3542. Event Management (3). This class is designed for students to learn the important aspects of planning and managing events, with an emphasis on social events such as educational, fraternal, weddings, reunions, religious, fundraising, political and others.

HFT 3603. Law for Hospitality Operations (3). This course provides insight into the legal issues faced by the hospitality industry. Emphasis is placed on issues most likely to lead to litigation against operators in the hospitality industry. Topics include customer interaction, contracts, negligence, property loss, food and alcohol service and employment law. Current issues and trends will be at the forefront of our analysis.

HFT 3700. Tourism Management and the Environment (3). This course focuses on tourism management, organization, and development. Emphasis on economic and environmental issues confronting the industry such as balancing use and preservation. Open to non-majors.

HFT 3806. Introduction to Food and Beverage Management (3). Prerequisite: HFT 1000. This course exposes students to the business of food and beverage management, including history, noted contributors to the industry, commercial equipment, safety and sanitation, purchasing and procurement, preparation techniques, costing of food formulas, menu pricing, logistics, and service.

HFT 3941r. Management Internship (1–12). (S/U grade only.) Prerequisites: Admission to the Dedman School of Hospitality. This internship is designed for Dedman School of Hospitality students to gain real world experience in the business field though on-the-job practice. Students work under the direction of an approved industry professional and the internship director. May be repeated to a maximum of twelve semester hours.

HFT 4064. Ales, Lagers and Culture (3). This course is an introduction to ales and lagers of the world with a focus upon their importance to global cultures found in many regions. Students learn about these regional beers and the interrelationship with their culture, including food, heritage, and festivals. Restricted to students twenty-one years of age and older.

HFT 4104. Global Impacts and Sustainability in the Club Industry (3). This course is designed to provide the student with an in-depth understanding and appreciation for sustainable business practices within the private club and golf resort industry. Focus is placed on how existing companies operate within the sustainability model. Students are expected to generate discussions and ideas on how the industry will impact local, regional, and global communities in the future. Case studies are utilized to provide students with real world examples of current practices.

HFT 4205. Conversational Spanish for Hospitality Managers (3). Prerequisite: Senior standing. This course emphasizes Spanish international culture and conversation and was designed primarily for Hospitality leaders. The course allows students to apply their Spanish-language skills to increase fluency in everyday hospitality-related situations. The course also focuses on the customs and cultural characteristics of the people from Spain as well as from Central and South America. This course is not recommended for fluent Spanish speakers.

HFT 4224. Hospitality Leadership and Ethics (3). This course develops the skills needed for the analysis and development of interpersonal management skills, focusing on: leadership, ethics, employee and guest relations, and team building.

HFT 4253. Lodging and Luxury Hotel Management (3). This course examines the management of the rooms departments, food & beverage departments, other profit centers and staff functions; hotel sustainability, and hospitality ethics.

HFT 4471. Managing Revenues and Expenses (3). Prerequisites: HFT 3424. This course introduces students to the body of knowledge related to revenue management (RM). This course presents and reviews techniques used in maximizing revenues and managing costs in the hospitality industry. The course presents revenue management applications pertaining to the hospitality industry to control and maximize revenue.

HFT 4502. Integrated Marketing for Hospitality (3). This course focuses on the applications of strategic market research and product/service positioning in the hospitality industry. Emphasis on competitive marketing strategies including sales, advertising, and promotions. Discussion of unique features of hospitality marketing, market research/analysis, ethics, and quality.

HFT 4802. Catering Management (3). Prerequisite: HFT 3806. This course covers management methods and concepts utilized in the administration of food and beverage functions.

HFT 4803. Advanced Food and Beverage Management (3). Prerequisite: HFT 3806. This course uses the University Center Club (ClubCorp. Inc.) to provide a study of advanced food-and-beverage-establishment management. Students work with live operation managers to design and manage scheduling, menus, profit and loss statements, labor, events, budgets, and overall corporate goal expectations. Students also experience human resource management, safety and security, and facility maintenance. Students are assigned to individually managed events under the supervision of events managers.

HFT 4866. Wine and Culture (3). This course is an introduction to basic wine knowledge that, together with wine tasting, enhances student understanding and appreciation of wine and its place in our culture and heritage. Restricted to students twenty-one years of age and older. May not be taken as an S/U course.

HFT 4905r. Directed Individual Study (1–3). May be repeated up to five times.

HFT 4930r. Special Topics in Hospitality Administration (1–3). This course is an-depth study of current topics in hospitality administration. May be repeated to a maximum of twelve semester hours when topics change.

HFT 4941. Field Study in Hospitality Administration (0). (S/U grade only.) This field study consists of 1,000 hours of satisfactory, acceptable work experience in the hospitality industry. Discussion expands and integrates the work experience to enhance management decision-making skills. Report and supervisors' evaluation required. Students should register for this class the semester in which they plan to graduate.

HFT 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine semester hours. Six semester hours of thesis are required to complete honors in the major.

Graduate Courses

HMG 5270. Lodging and Resort Management (3).
HMG 5292. Sustainable Hospitality Management (3).
HMG 5296. Business Strategy for the Hospitality Industry (3).
HMG 5465. Hospitality Financial Management (3).
HMG 5466. Hospitality Revenue Management (3).
HMG 5477. Financial and Cost Control Systems for Hospitality and Tourism Organizations (3).
HMG 5506. Services Marketing and Research for Hospitality and Tourism Organizations (3).
HMG 5697. Managing Legal Risks of Hospitality Organizations (3).
HMG 5756. Convention Services and Events Management (3).
HMG 5800. Food and Beverage Management (3).
HMG 5908. Studies in Hospitality and Tourism (3).
HMG 5937. Special Topics (3).

HOUSING AND COMMUNITY DEVELOPMENT:
see Urban and Regional Planning

HUMAN SCIENCES, GENERAL COURSES:
see College of Human Sciences

Undergraduate Program in Interdisciplinary HUMANITIES

College of Arts and Sciences

Website: *http://pih.fsu.edu/*
Program Director: Martin Kavka; **Undergraduate Advisors:** Stoddard, Tucker; **Humanities Steering Committee:** Carrasco (Art History), Gants (English), Graban (English), Hanley (History), Kavka (PIH), Marty (CCI), Pascoe (English), Valisa (Modern Languages and Linguistics).

A Bachelor of Arts (BA) in Humanities offers a broad interdisciplinary education in the thought, literature, art history, and music of Western and Eastern cultures. The interdepartmental undergraduate major is offered as a preparation for graduate work in the humanities and as a basic cultural background for a variety of professional fields, such as teaching, research, journalism, law, librarianship, foreign service, the religious professions, music, arts administration, and government service. For questions and academic advising, please contact Shannon Tucker in the Program in Interdisciplinary Humanities at *(850) 644-9121*.

Course Overlap with Liberal Studies and/or Other Majors: A maximum of three hours may overlap between the Humanities major and Liberal Studies requirements. A maximum of six hours may overlap between Humanities and another major. No courses taken toward the Minor in Humanities can overlap with any other requirements (exclusive of writing and Diversity "x" and "y" classes).

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Humanities satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or MUS 2360.

Oral Communication Competency

All undergraduates at Florida State University must demonstrate oral communication competency prior to graduation. Undergraduate majors in Humanities satisfy this requirement by earning a grade of "C–" or higher in SPC 1017, SPC 2067, SPC 2608, COM 2080, or another officially designated Oral Communication class from one of the student's Humanities major concentrations.

Upper Division Writing

All undergraduates at Florida State University must demonstrate advanced writing skills competency prior to graduation. Undergraduate majors in Humanities satisfy this requirement by earning a grade of "C–" or higher in HUM 3218 or another Upper Division Writing class from one of the student's Humanities major concentrations.

Requirements for a Major in Interdisciplinary Humanities

Please review all college-wide degree requirements in the "College of Arts and Sciences" chapter of this *General Bulletin*. All Humanities majors must meet the language requirement for students seeking the Bachelor of Arts (BA) degree in the College of Arts and Sciences. For alternatives to satisfy this requirement, refer to 'World Language' in the "College of Arts and Sciences" chapter of this *General Bulletin*. If a student chooses to double major, only six semester hours may be applied to both majors. For general policies pertinent to a double major, refer to 'Second Majors and Academic Regulations' in the "Academic Regulations and Procedures" chapter of this *General Bulletin*.

The major and minor combination comprises a minimum of forty-two semester hours beyond the Liberal Studies requirements and numbered above 1999. All coursework counted toward the Humanities major must be completed with a "C–" or higher. Humanities majors must take a Cross-Cultural Diversity course ("x") and a Diversity in Western Culture course ("y"), or their equivalents, before graduation. If these courses have not been taken to fulfill the Liberal Studies requirement, they may be taken as University electives or in the concentration of the major with the approval of Humanities advisor. The courses to be counted towards the Humanities major will be distributed as follows:

Required Core Humanities Course: Three hours in one of the following courses: HUM 2210, HUM 2235, or HUM 2250.

Primary Concentration: Fifteen semester hours in one of the following Humanities departments:

African American Studies
Anthropology
Art History
Asian and Middle Eastern Studies
Classical Studies
Communication
Digital Humanities
English
Film Studies
History
History and Philosophy of Science
Humanities
Modern Languages
Philosophy
Religion
Women's, Gender, and Sexuality Studies

Secondary Concentration: Twelve semester hours in one of the departments listed above. The secondary department cannot be the same as the primary department.

Tertiary Concentration: Twelve semester hours in one of the departments listed above. The tertiary department must be different from both the secondary and primary departments.

Upper-Level Course Requirement

A minimum of twenty-four hours of coursework taken for the major must be numbered above 2999.

All Interdisciplinary Humanities majors are required to schedule regular advising appointments each semester. Humanities majors are required to schedule a graduation check with the college and with the University Registrar upon completion of ninety semester hours. The student must also apply for graduation with the Registrar during the first two weeks of the semester in which the student expects to graduate. Failure to meet regularly with an advisor or to follow the specified procedures will delay progress toward completion of the degree.

Internships, Honors Classes, and Directed Individual Study (DIS)

The maximum combined credit that will be applied toward the major for upper-level Honors courses, internships, or Directed Individual Studies in humanities areas is six semester hours. All DIS classes used for credit towards the major must be approved by the Undergraduate Advisor.

Requirements for a Minor in Humanities

No courses taken toward the Minor in Humanities can overlap with any other requirements (exclusive of writing or Diversity "x" and "y" classes). The undergraduate minor may be accomplished in one of the two following ways:

1. Fifteen semester hours, of which nine must be taken in one of the Humanities departments listed above, and six from one other Humanities department from the same list. Six hours must be numbered above 2999.
2. Twelve semester hours in courses offered by the Interdisciplinary Humanities Program.

Definition of Prefix

HUM—Humanities
IDS—Interdisciplinary Studies

Undergraduate Courses

HUM 1920. Freshman Interest Group (1). (S/U grade only.) This course is a seminar-structured class designed to provide a set of experiences that introduces the student to the academic culture at FSU. Taught Fall term only. Topics vary.

HUM 1921r. Learning Community Colloquium (1). (S/U grade only.) This series includes presentations on resources and University-wide programs as well as frequent talks by faculty members describing their own research and/or creative work. The course provides opportunities to meet a variety of potential role models and to engage in thoughtful, substantive discussions in a large-classroom setting. May be repeated to a maximum of two semester hours.

HUM 2020. The Art of Being Human: Examining the Human Condition Through Literature, Art, and Film (3). In this course, students gain an overview of the development of Western culture from Antiquity to the present as it is expressed through the arts (painting, sculpture, architecture, literature, music, film and the performing arts), and especially through literature. The course examines the human condition through culture and the arts to better understand how the humanities are interconnected.

HUM 2210. Humanities: Pre-history to Late Antiquity (3). This course offers an introduction to the thought, literature, and arts of Western culture from pre-historic times to about 400 A.D.

HUM 2235. Humanities: From the Renaissance to the Enlightenment (3). This course offers an introduction to the thought, literature, and arts of Western culture from the Renaissance to the Enlightenment.

HUM 2250. Humanities: 18th-Century Romanticism to Postmodernism (3). This course offers an introduction to the thought, literature, and arts of Western culture from 18th-century Romanticism to the Postmodern period.

HUM 2831. Digital Literacy in the Humanities (3). This course introduces students to the inner workings of digital technologies that organize and define our current digitally-experienced world, with a view to the implications of such technology, both as consumers and as producers of digital data.

HUM 2937r. Humanities Honors Seminar (3). May be repeated to a maximum of nine semester hours as topics vary.

HUM 2944r. University Honors Colloquium (1). (S/U grade only.) Prerequisite: Admission to the honors program. This course allows faculty from across the academic and creative arts spectrum to explore "Art and Inquiry in the Modern University" with entering honors students each Fall. Discussions follow each weekly presentation. Students are required to write responses totaling two thousand words. May be repeated to a maximum of two semester hours.

HUM 3123. Irish Culture: An Introduction (3). This course introduces students to the rich traditions and culture of Ireland. The course acquaints students with the cultural factors that have shaped Ireland in general and Dublin in particular.

HUM 3218. Humanism and the Humanities (3). This course traces the development of the idea of humanism from its pre-Greek form in the Ancient Near East to the present day. Students become familiar with the central works of humanistic literature and art from each period, as well as the evolution of the concept of "human rights."

HUM 3321. Multicultural Dimensions of Film and 20th-Century Culture (3). This course examines the impact of American Cinema on social relations and on the reproduction of power. Students benefit from this course by learning a matrix of movie history, movie genres, and approaches to multiculturalism by which to judge movies, cultural representation and the cultural experiences of life. The movies provide a window into middle and late 20th century cultures, which serve as comparisons and contrasts for culture in the 21st century.

HUM 3930r. Humanities: Special Topics (1–3). May be repeated within the same term to a maximum of twelve semester hours.

HUM 4906r. Directed Individual Study (3). Prerequisite: Major status. A student registered for an individual study course must schedule at least one conference a week on campus. The student should bear in mind that the DIS requirements are the same as if he or she were attending a class for three hours a week for ten weeks. The minimum length of the paper is thirty pages excluding footnotes and bibliography. This course cannot count toward major coursework. May be repeated to a maximum of nine semester hours.

HUM 4907r. Honors Work (1–6). Prerequisite: Admission to the honors program. Course description not on file. May be repeated to a maximum of nine (9) credit hours; repeatable within the same term.

HUM 4924. Freshman Interest Group Peer Instruction (1). This course develops the knowledge, skills, and perspectives needed to be a Peer Instructor for the FIGS Colloquium. Instruction covers general information needed to support the values of this unique liberal studies educational endeavor.

HUM 4931r. Topics in the Civilization of Britain or Italy (3). May be repeated to a maximum of six semester hours.

HUM 4934r. Interdisciplinary Topics (3). This course provides students from any discipline with an integrated interdisciplinary learning experience. The course is taught by instructors from at least two different departments and/or colleges. Topics vary. May be repeated to a maximum of twelve semester hours.

HUM 4935r. Seminar in the Humanities (3). Prerequisite: Major status. The seminar "Principles of Criticism and Interpretation of Humanities" examines a series of perspectives for approaching and applying the kind of knowledge gained from a study in the humanities. May be repeated to a maximum of six semester hours.

IDH 2113. America Abroad (3). This course examines the history of U.S. presence abroad by analyzing cultural texts produced by and/or for a U.S. audience. Engaging feminist, queer, and ethnic studies insights into transnational power relations, students consider how race, gender, class, and sexuality dynamics inform how U.S. presence abroad has been represented in different time periods.

IDH 2403. Feminist Perspectives on Globalization (3). This course engages feminist debates about the ethics of globalization, the challenges of transnational activism, and the potential complicities of U.S. citizens in maintaining global structures of inequality by focusing on the roles the feminized and sexualized laborers play within the global economy.

IDS 1107r. The Florida State Experience (0). (S/U grade only.) This course involves structured discussion designed to bolster student growth, persistence, and academic performance.

IDS 2166. Art as Propaganda: The Impact of Visual and Performing Arts on Western Society (3). This course analyzes how Visual Arts may sometimes be seen as merely things to hang on a wall or placed in a room to be passively viewed. However, significant works of art, particularly at the time of their creation, have the power to shape ideology, cultural trends and even politics. Students examine selected works not only for their aesthetic value but also for their impact on society, as well as their use as propaganda.

IDS 2293. Dangerous Liaisons: Rape Myths and Violence in Literature, the Arts, and Music (3). This course identifies cultural representations of rape and violence in literature, music and the arts and discusses current research in rape myth recognition to explain how these areas are interrelated.

IDS 2370. Festivals: Artisanship, Satire, and Fire (3). This course is a transatlantic view of some celebrations and festivals that currently shape society and individuals in the modern Western World. The course closely examines the historical, social, religious, and economic motives that have developed them into international tourist attractions. Supporting areas of study within the festivals are dedicated to the music, literature, performing and plastic arts that contribute to the overall scope of the festivals covered in the course.

IDS 2463. Writing/s about Music (3). This course is a reading- and writing-intensive seminar based on writings about music from different cultural perspectives and in a variety of genres. Students analyze assigned readings and create their own work in a variety of forms.

IDS 2464. Crossing the Atlantic: Lorca in America, Hemingway in Spain (3). This course studies and analyzes Federico Garcia Lorca and Ernest Hemingway, two of the most internationally recognized literary and cultural figures of the 20th century. Students explore an inter-cultural journey that reaches the core of how many Spaniards view America and how many Americans view Spain to this day.

IDS 2920r. UROP Colloquium (1). (S/U grade only.) This course is a seminar-structured colloquium for The Undergraduate Research Opportunity Program (UROP) that provides a set of experiences to introduce students to undergraduate research at FSU. Topics vary. May be repeated to a maximum of two semester hours.

IDS 3458. Lions and Tigers and Bears, Oh My! Multicultural Dimensions of American Cinema (3). This course examines the impact of American cinema on social relations and the reproduction of power. Students learn a matrix of movie history, movie genres, and approaches to multiculturalism by which to judge movies, cultural representation and the cultural experiences of life.

Graduate Courses

HUM 5835. Introduction to Digital Humanities I (3).
HUM 5837 Introduction to Digital Humanities II (3).
HUM 5838. Digital Pedagogy (3).
HUM 5909r. Directed Individual Study (3). (S/U grade only.)
HUM 5915r. Supervised Research (1–5). (S/U grade only.)
HUM 5938r. Interdisciplinary Topics (3).
HUM 5940r. Supervised Teaching (0–5). (S/U grade only.)
HUM 6904r. Readings for Examination (1–12). (S/U grade only.)
HUM 6939r. Seminar Topics (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of INDUSTRIAL AND MANUFACTURING ENGINEERING

FAMU—FSU College of Engineering

Website: *http://www.eng.famu.fsu.edu/ime/*
Chair: Okoli; **Professors:** Awoniyi, Liang, Okoli, M. Zhang; **Associate Professors:** Park, Vanli, Zeng; **Assistant Professors:** Dickens, Li, Sun, Sweat, Wang, Yu; **Research Faculty:** Hao, Park; **Teaching Faculty:** Devine, Gray, Taylor; **Adjunct Instructor:** Gomez; **Professor Emeritus:** Braswell

The mission of the Department of Industrial and Manufacturing Engineering is to provide for students a solid industrial engineering curriculum coupled with a strong research program driven by the economic and technological development needs of society.

The Industrial Engineering degree provides a broad technical background with special emphasis on manufacturing systems, computer modeling, costs, quality, management, and human factors. Industrial engineering draws upon specialized knowledge and skills in the mathematical, physical, and social sciences, together with the principles and methods of engineering design and analysis, to specify, predict, and evaluate industrial systems.

The program of study includes engineering analysis for the optimization of industrial systems, design of man-machine systems, and the scientific management of activities. Specialized training is available in the use of modern engineering tools and techniques such as computer-aided design (CAD), computer integrated manufacturing (CIM), and ergonomic (human factors) engineering.

Industrial engineers pursue careers in manufacturing, service industries, and government. In addition, many industrial engineers are now being employed in nontraditional fields such as hospitals, banks, insurance, and information processing. The present and future demand for IE's appears to be very high. Industrial engineers are increasingly being called upon to act as productivity catalysts in manufacturing and service organizations in order to meet regional, national, and international demand and competition.

Program Educational Objectives

The Bachelor of Science in Industrial Engineering (BSIE) curriculum is accredited by the *Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012*, phone *(410) 347-7700*. The Bachelor of Science in Industrial Engineering (BSIE) curriculum is designed to comply with the ABET criteria for accrediting engineering programs. The educational objectives are that, within the first few years following their graduation, graduates should have:

- Been employed in industrial, service, or governmental organizations applying the industrial engineering skills in developing, designing, analyzing, implementing, or improving integrated systems that include people, materials, information, equipment, and energy
- Completed or enrolled in a graduate program
- Participated in a multicultural and diverse workplace
- Utilized teamwork, communication, and engineering management skills.

To achieve these objectives, all industrial engineering students must demonstrate or exhibit specific program outcomes. Students are instructed to contact their academic advisor or visit the departmental Web site at *http://www.eng.famu.fsu.edu/ime/* to obtain the current list of industrial engineering program outcomes.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in industrial engineering satisfy this requirement by earning a grade of "C–" or higher in COP 3014 (preferred) or CGS 3406.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Industrial & Systems Engineering

1. MAC X311 or MAC X281
2. MAC X312 or MAC X282
3. MAC X313 or MAC X283
4. MAP X302 or MAP X305
5. CHM X045/X045L or CHM X045C, or CHS X440/X440L
6. PHY X048/X048L or PHY X048C, or PHY X043 and PHY X048L
7. PHY X049/X049L or PHY X049C, or PHY X044 and PHY X049L

Engineering Core Courses

COP 3014 Programming I (3)
EEL 3003 Introduction to Electrical Engineering (3)
EEL 3003L Introduction to Electrical Engineering Lab (1)
EGN 2123 Computer Graphics for Engineers (2)
EGN 3613 Principles of Engineering Economy (2)
EGM 3512 Engineering Mechanics (4)
EML 3100 Thermodynamics (2)
MAS 3105 Applied Linear Algebra I (4)

Requirements for a Major in Industrial Engineering

It is the policy of the Department of Industrial and Manufacturing Engineering that a student must receive satisfactory ("C–" or better) grades in all prerequisite courses prior to enrolling in an industrial engineering course. Concurrent registration in a course and its prerequisites is not allowed. All prerequisites to prerequisites must be completed. Failure to abide by this policy will result in the cancellation of enrollment in the course at any time during the semester and with no refund of fees. Corequisite courses must be taken concurrently or satisfactorily completed prior to enrolling in the course.

A candidate for the Bachelor of Science (BS) degree in industrial engineering is required to successfully complete the following courses, in addition to the other College of Engineering core requirements:

EGN 2123 Computer Graphics for Engineers (2)
EGN 3443 Statistical Topics in Industrial Engineering (3)
EGN 3613 Principles of Engineering Economy (2)
EIN 3104 Introduction to Engineering Management (3)
EIN 3010 Industrial and Manufacturing Engineering Tools (3)
EIN 3390C Engineering Materials and Manufacturing Processes I (3)
EIN 4394C Engineering Materials and Manufacturing Processes II (3)
EIN 4243 Ergonomics (3)
EIN 4333 Design of Integrated Production Systems and Facilities Layout (3)
EIN 4621 Manufacturing Systems Engineering (3)
EIN 4890 Industrial Engineering Senior Design Project I (3). - First of two semester sequence
EIN 4892 Industrial Engineering Senior Design Project II (3). - Second of two semester sequence
EIN 4936 Selected Topics in Industrial Engineering (3)
EIN 4940 Industrial and Manufacturing Engineering Practicum (2)
ESI 3312 Operations Research I: Deterministic (3)
ESI 3628 Computing Topics in Industrial Engineering (3)
ESI 4234 Quality Control and Reliability Engineering (3)
ESI 4313 Operation Research II: Nondeterministic (3)
ESI 4523 Simulation of Industrial Engineering Systems (3)
XXX XXXX Technical Elective (with advisor's approval) (3)
XXX XXXX Department Electives (3)

Industrial engineering majors **are required** to consult with their IE undergraduate advisor before enrolling for the next academic term. Students must obtain current IE degree requirements and course offering schedules from the IE department.

Honors in the Major

The Department of Industrial and Manufacturing Engineering offers an Honors in the Major program in Industrial Engineering to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*, or visit *https://honors.fsu.edu/honors-major*.

Grade Requirements

In addition to University and college requirements regarding grades and grade point average (GPA), the Department of Industrial and Manufacturing Engineering requires that the IE major achieve a grade within the "C" range or higher for all required IE courses. In accordance with College of Engineering policy, a student may request that one course completed with a grade of "D+", "D", or "D–" be counted toward the BSIE degree. Recommendation by the IME undergraduate advisor(s) and approval by the department chairperson and the associate dean are required for the course to be counted toward graduation credit.

Definition of Prefixes

EEL—Engineering: Electrical
EGN—Engineering: General
EIN—Industrial Engineering
EMA—Materials Engineering
EOC—Ocean Engineering
ESI—Industrial/Systems Engineering
PRO—Prosthetics/Orthotics

Undergraduate Courses

EGN 1004L. First Year Engineering Laboratory (1). This laboratory includes an emphasis on student time management, a variety of products and processes, and computer-aided problem solving. Product/process involves sketching and drawing pertinent diagrams by hand, and learning the history and engineering concepts involved.

EGN 2123. Computer Graphics for Engineers (2). Corequisite: MAC 2311. This course covers principles of engineering graphics: visualization, spreadsheet applications, graphical calculus, and descriptive geometry. Also introduces the engineering design process and CAD systems.

EGN 3443. Statistical Topics in Engineering (3). Prerequisite: MAC 2312. This course explores basic statistical analysis, samples and populations, variability, hypothesis formulation, and data analysis. Use of computer software and interpretation of results.

EGN 3613. Principles of Engineering Economy (2). Prerequisite: MAC 2313. This course emphasizes discrete cash flow diagrams, cash flow equivalence factors, standard criteria for comparing project proposals, special cash flow topics, special analysis, and case studies.

EIN 3010. Industrial and Manufacturing Engineering Tools (3). Prerequisite: Major status. This course teaches, from an engineering viewpoint, fundamental topics that are important for the practicing industrial engineer, including technical writing, oral communication and presentation of technical topics, managerial and cost accounting for production organizations and databases and management information systems.

EIN 3104. Introduction to Engineering Management (3). Prerequisites: EGN 2123 and EGN 3613. This course focuses on topics such as the evolution, history, emergence, and ethics of engineering and industrial engineering. Emphasis is placed on the management of technology and on the engineering method for product conceptualization, design, development, and production. Fundamental sciences, engineering methods, information systems, economics, and behavior theory contained in engineering management principles and practices.

EIN 3390C. Engineering Materials and Manufacturing Processes I (3). Prerequisite: CHM 1045. Corequisite: EGN 2123. This course is an introduction to industrial materials and their composition, properties, metallography, and heat treatment. Introduction to the manufacturing processes of machine industries including hot working, cold working, and metal removal.

EIN 3905r. Directed Independent Study (3). Prerequisite: Permission from the department chairperson. Topics vary and each case must be approved by the department chairperson. May be repeated to a maximum of six semester hours.

EIN 4214. Occupational Safety and Hazard Control (3). Prerequisite: EIN 4243. This course covers the history of safety, safety in the workplace, government regulations, methods of accident prevention, system safety, reliability, and fault tree analysis.

EIN 4243. Ergonomics (3). Prerequisites: EGM 3512, EGN 3443, and EIN 3390C. This course examines human characteristics and limitations in relation to physical work, mental work, and job design. Human physiological variables in relation to industrial work environment and product design. Case studies and design exercises.

EIN 4312. Tool and Process Engineering (3). Prerequisite: EIN 3390C. This course discusses basic design techniques of various manufacturing tools, including cutting tools, inspection tools, and jigs and fixtures. Fundamental planning techniques of manufacturing processes. Design exercises.

EIN 4333. Design of Integrated Production Systems and Facilities Layout (3). Prerequisites: EGN 2123, EGN 3613, and ESI 3312C. This course explores basic functions: demand forecasting, process planning, master scheduling, expediting, and quality control. Inventory control. Formation of systems from those basic functions. Case studies and design exercises with computer implementation.

EIN 4394C. Engineering Materials and Manufacturing Processes II (3). Prerequisite: EIN 3390C. This course is an introduction to engineering materials used in industry from the perspectives of composition, microstructures, properties, and heat treatment, various traditional and non-traditional manufacturing processes, basic mathematical descriptions for selected processes, and the application of these concepts to process selection and planning.

EIN 4445. Technology Entrepreneurship and Commercialization (3). This course simulates, in an academic environment, the process of creating and analyzing business models and commercialization plans for technology-based products of services to meet a need or solve a problem.

EIN 4611. Industrial Automation and Robotics (3). Prerequisite: EIN 3390C. This course introduces and familiarizes students with the basic automation problems and the technologies used in automated production and robotic systems. Various components and systems and their applications to industrial automation are discussed. The course is supplemented by labs that help students apply and evaluate the concepts studied in the classroom.

EIN 4621. Manufacturing Systems Engineering (3). Prerequisite: EIN 4312. This course is an introduction to modern manufacturing systems, with a special focus upon the integration of manufacturing resources through the use of computers. Design, planning, analysis, and control of computer integrated manufacturing systems.

EIN 4890. Industrial Engineering Senior Design Project I (3). Prerequisite: Must be in final year of the degree program. This course is the first in a two-part course sequence, this capstone class represents the culmination of the industrial-engineering design sequence and draws upon student training from all previous courses. This course utilizes the six-sigma methodology to reduce variation and defects in order to deliver products and services that meet customer requirements.

EIN 4892. Industrial Engineering Senior Design Project II (3). Prerequisite: EIN 4890, and must be in final year of the degree program. This course is the second in a two-part course sequence, this capstone class represents the culmination of the industrial-engineering design sequence and draws upon student training from all previous courses. This course utilizes the six-sigma methodology to reduce variation and defects in order to deliver products and services that meet customer requirements.

EIN 4934r. Honors Thesis (3). May be repeated to a maximum of six semester hours.

EIN 4936r. Selected Topics in Industrial Engineering (3). This course is offered Fall and Spring semesters. Topics are determined by a departmental committee on special topics, taking into consideration the needs of students who are about to graduate. May be repeated to a maximum of nine semester hours.

EIN 4940. Industrial and Manufacturing Engineering Practicum (2). Prerequisite: EIN 4621. This course illustrates the design principles required for industries to preserve a competitive enterprise.

ESI 3312C. Operations Research I: Deterministic (3). Prerequisite: MAS 3105. This course covers the following topics with emphasis on validation of algorithms and derivation of heuristics: linear programming, assignment problems, CPM, network flows, discrete optimization, branch and bound solution method, and dynamic programming. Design exercises.

ESI 3628. Computing Topics in Industrial Engineering (3). Prerequisite: COP 3014. This course focuses on state of the art computing techniques for industrial engineers. Applications of structured programming, mathematical analysis software, and engineering databases. Use in engineering of GUI languages, Internet communication, and UNIX.

ESI 4234. Quality Control and Reliability Engineering (3). Prerequisite: EGN 3443. This course is an introduction to quality and reliability engineering. Statistical quality control techniques, process capability analysis, and design and analysis of experiments for quality and reliability improvement.

ESI 4313C. Operations Research II: Nondeterministic (3). Prerequisites: EGN 3443 and MAS 3105. This course focuses on the development and application of nondeterministic, analytic models including PERT/CPM, discrete and continuous time Markov chains, queuing models including queuing networks, inventory models, and decision analysis. Case studies and design exercises.

ESI 4523. Simulation of Industrial Engineering Systems (3). Prerequisite: ESI 4234. This course focuses on simulation modeling and computer solution of industrial engineering systems. Modeling strategies, probability considerations, simulation languages, simulation verification, and engineering case studies.

Graduate Courses

EEL 5606. Introduction to Mobile Robotics and Unmanned Systems (3).
EEL 5688. Principles of Autonomous Systems (3).
EIN 5020. Research Methodology (3).
EIN 5182. Engineering Management (3).
EIN 5328. Environmentally Conscious Design and Manufacturing (3).
EIN 5353. Engineering Economic Analysis (3).
EIN 5356C. Cost Estimating for Engineering Economic Analysis (3).
EIN 5392. Manufacturing Processes and Systems (3).
EIN 5398. Manufacturing Materials Processing (3).
EIN 5445C. Technology Entrepreneurship and Commercialization (3).
EIN 5524. System Modeling and Simulation (3).
EIN 5622. Computer-Aided Manufacturing (3).
EIN 5905r. Directed Individual Study (1–3). (S/U grade only.)
EIN 5930r. Special Topics in Industrial Engineering (1–6).
EIN 5931. Leadership and Communications (3).
EIN 5936r. Graduate Seminar (0). (S/U grade only.)
EMA 5015C. Nanomaterials and Nanotechnology (3).
EMA 5182. Composite Materials Engineering (3).
EOC 5518. Marine Vehicles Engineering Principles (3).
EOC 5519. Marine Systems Engineering Principles (3).
ESI 5000. Design Considerations for Systems Engineering (3).
ESI 5001. Systems Test and Evaluation (3).
ESI 5223. Statistical Process Control (3).
ESI 5228. Introduction to ISO 9000 (3).
ESI 5243. Engineering Data Analysis (3).
ESI 5247. Engineering Experiments (3).
ESI 5249. Response Surfaces and Process Optimization (3).
ESI 5353. Engineering Risk Analysis and Decision Making with Uncertainty (3).
ESI 5408. Applied Optimization (3).
ESI 5451. Project Analysis and Design (3).
ESI 5458. Optimization on Networks (3).
ESI 5510. Fundamentals of Systems Engineering (3).
ESI 5512. System Requirements Analysis and Knowledge Management (3).
ESI 5524. Advanced Simulation Applications (3).
ESI 5525. Modeling and Analysis of Manufacturing and Industrial Systems (3).
ESI 5536. Model Based Systems Engineering and Simulation (3).
PRO 5132. Advanced Materials in Prosthetics and Orthotics (3).
PRO 5132L. Advanced Materials in Prosthetics and Orthotics Lab (2).
PRO 5803. Orthotics and Prosthetics Clinical Rotation (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

School of INFORMATION

Undergraduate Programs

College of Communication and Information

Website: *http://ischool.cci.fsu.edu/*

Director: Kathleen Burnett; **Professors:** G. Burnett, K. Burnett, Everhart, Gross, Kazmer, Latham, Lustria, Mardis, Marty, McClure, Stvilia; **Associate Professors:** He, C. Hinnant, Ho, Mon; **Assistant Professors:** L. Hinnant, Oliveira, Rankin; **Specialized Faculty:** Baeg, Barrager, Chatmon, Gibradze, Jowett, Marks, Saludo, Swaine, von Hollen; **Professors Emeriti:** Aaron, Blazek, DePew, Hart, C. Jörgensen, Riccardi, Robbins, Wiegand, Zachert

The School of Information offers a Bachelor of Science in Information Technology (BSIT) with a major in Information Technology (IT) and a major in Information, Communication, and Technology (ICT); a Master of Science in Information (MSI) accredited by the American Library Association (ALA); a Master of Science in Information Technology (MSIT); a Specialist in Information; and a Doctor of Philosophy (PhD) in Information. A combined bachelor's/master's pathway in Information Technology (BSIT to MSIT) is also offered. Refer to the "School of Information" section of this *General Bulletin* or to the School Web site at *http://ischool.cci.fsu.edu/* for more details concerning degree programs, degree requirements, and a description of the School of Information and its facilities and opportunities.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Information Technology satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100. Undergraduate majors in Information Communication and Technology satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or COM 4470.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Information Technology

1. PSY XXXX: Any course in psychology
2. STA X023 or STA X122
3. ECO X013
4. CGS XXXX: Any database course
5. COP XXXX: Any course in computer programming
6. COP XXXX: Any course in object-oriented computer programming
7. MAC XXXX: A pre-calculus or discrete math course
8. PHI XXXX: Any course in general ethics

Technology Requirement

All students in the information technology undergraduate program are required to provide their own laptop computer and appropriate software. Specific information may be found online at *https://ischool.cci.fsu.edu/academics/online/requirements/*.

Requirements for a Major in Information Technology

To major in Information Technology (IT), a student must complete a minimum of forty-two semester hours in information technology, including the two foundation courses, ten electives, and two capstone courses.

Foundation Courses (six hours required):

LIS 3021 Technical Communication for the Information Professions (3)
LIS 3353 Information Technologies (3)

Electives (thirty hours required):

Thirty hours of IT elective courses chosen in consultation with an advisor. Students may focus their electives on topics such as networking and security, design and development, health informatics, and social informatics.

Capstone Courses (six hours required):

LIS 4708 Perspective on Information Technology (3)
LIS 4910 Information Technology Project (3)

Note: All courses must be completed with a minimum grade of "C–".

For more information about the BSIT program requirements, please visit *https://ischool.cci.fsu.edu/academics/undergrad/*.

Requirements for a Major in Information, Communication, and Technology

The major in Information, Communication, and Technology (ICT) is an interdisciplinary program that includes courses from the School of Communication and the School of Information. A student must complete forty-two semester hours of coursework including two foundation courses, ten electives, and two capstone courses:

Foundation Courses (six hours required):

LIS 3353 Information Technologies (3)
MMC 2000 Introduction to the Mass Media (3)

Research Skills (three hours from the following list):

ADV 4603 Account Planning (3)
LIS 3201 Research and Data Analysis in Information Technology (3)

Technical Skills (six hours from the following list):

COM 4470 Desktop Multimedia (3)

OR

DIG 3118 Digital Graphic Design (3)
LIS 3793 Information Architecture (3)

OR

LIS 4351 User Experience Design (3)
LIS 4368 Advanced Web Applications Development (3)
LIS 4380 Social Media Management (3)
LIS 4381 Mobile Application Development (3)

Oral Communication Skills (three hours from the following list):

SPC 2608 Public Speaking (3)

OR

SPC 1017 Fundamentals of Speech (3)

Written Communication Skills (three hours required):

LIS 3021 Technical Communication for the Information Professions (3)

OR

IDS 3682 Technical Communication in the Information Age (3)
LIS 4022 Writing for Information Professions (3)

Strategies (six hours from the following list):

ADV 3008 Principles of Advertising (3)
ADV 3410 Hispanic Marketing (3)
LIS 4772 Introduction to Consumer Health Informatics (3)

OR

IDS 3493 Empowering Health Consumers in the eHealth Era (3)
PUR 3000 Introduction to Public Relations (3)
RTV 3001 Media Techniques (3)

Perspectives (nine hours from the following list):

ADV 4411 Multicultural Marketing (3)
COM 3332 New Communication Technology and Contemporary Society (3)
COM 3420 Media, Culture and the Environment (3)

OR

IDS 3164 Media, Culture and the Environment (3)
COM 4905r Directed Individual Study (1–3)
COM 4941r Applications of Instructional Methods (1–3)
LIS 4480r Information Technology Leadership (3)
LIS 4905r Directed Individual Study (1–3)
LIS 4930r Special Topics in Information Technology (3)
LIS 4940r Internship in Information Technology (1–6)

MMC 4300 Communication and Change: The Diffusion of Innovations (3)

Capstone Courses (six hours required):

LIS 4708 Perspective on Information Technology (3)

LIS 4910 Information Technology Project (3)

Note: All courses must be completed with a minimum grade of "C–".

For more information about the BSIT program requirements, please visit *https://ischool.cci.fsu.edu/academics/undergrad/*.

Requirements for a Minor in Information Technology

The School of Information offers several minors in Information Technology on a space-available basis. Each minor consists of twelve credit hours as detailed online at *http://ischool.cci.fsu.edu/*. All courses must be completed with a grade of C- or better, and at least six of the twelve credit hours must be completed at Florida State University. Courses taken at another institution must be evaluated by the School of Information to determine equivalency. Courses counted toward the minor cannot also be used to fulfill other degree requirements. Some courses may also have prerequisites. More information can be obtained by contacting the undergraduate advisors. Students do not have to complete any paperwork to begin working on an Information Technology minor, and the School of Information does not provide a certificate of completion. It is the responsibility of your major department to verify that you have completed the minor.

Combined Bachelor's/Master's Pathway

The School of Information has also developed a combined bachelor's/master's pathway in Information Technology (BSIT/MSIT) combining a bachelor's degree in Information Technology (BSIT) with a master's degree in Information Technology (MSIT). This pathway offers eligible undergraduate students the opportunity to take up to twelve semester hours of graduate coursework, which may be counted toward both the BS and MS degrees. For more information, visit: *https://ischool.cci.fsu.edu/programs/undergrad-programs/combined-bachelors-masters-program-in-information-technology/*.

Innovation Hub

The School of Information is a founding partner in the Innovation Hub (The Hub) located on the first floor of the Louis Shores Building. The Innovation Hub is a technology innovation collaboration space designed to support design thinking with the latest technologies, such as a Digital Fablab, Virtual Reality Lab, Hackerspace, and more. For more information, visit *https://innovation.fsu.edu/*.

Professional Opportunities

IT Careers include:

- Content Manager
- Cyber/Data Security
- Data Analyst
- Data Modeler/Designer
- Data Warehousing
- Database Administrator
- Digital Media Manager
- Information Architect
- Information Technology Manager
- Mobile/Web Application Developer/Administrator
- Network Administrator
- Project Manager
- Systems Analyst
- Social Media Manager
- SQL Programmer
- Technical Editor/Writer
- Usability Analyst
- Technology Coordinator

ICT Careers include:

- Corporate Communications Coordinator
- Database Analyst
- Digital Specialist
- e-Marketing Specialist
- Integrated Marketing Strategist
- Mobile/Web Application Developer
- Online Engagement Specialist
- Project Manager
- Public Relation/Content Marketing
- Security/Networking Analyst
- Social Community Manager
- Social Media Manager
- Technical Trainers/Manager
- Technology Support
- Web Designer
- Web Development Specialist

Definition of Prefixes

CGS—Computer General Studies
COP—Computer Programming
IDC—Interdisciplinary Computing
IDS—Interdisciplinary Studies
LIS—Library and Information Studies

Undergraduate Courses

CGS 2821. Introduction to Website Design (3). This course teaches proper website design techniques to students from all degree programs. Topics include visual design and graphics, information architecture, usability and accessibility, communication, adaptation to audience, markup languages, and development tools and processes. Coursework is focused on applying Web site design principles and techniques to projects in the students' disciplines. The course is gauged for beginners who are computer competent; it does not teach computer programming.

CGS 2835. Interdisciplinary Web Development (3). Prerequisite: Computer fluency. This interdisciplinary course provides basic training in project management, communication, information architecture, interface design, graphic design, Web technologies, content editing, and subject-area expertise, thus empowering students across disciplines to effectively communicate their subject-area expertise through today's most popular publishing medium, the Web.

COP 2258. Problem Solving with Object Oriented Programming (3). This interdisciplinary course is designed for students who are interested in understanding the principles that govern Object-Oriented Programming (OOP) and software development in order to assist with problem-solving in their own disciplines. The course addresses algorithm building principles, problem-solving strategies, how to analyze problems to identify requirements, and how to design an object-oriented solution. Students design, write, and debug computer programs.

IDC 2930r. Special Topics in Interdisciplinary Computing - Beginning Level (1–4). This course covers current issues and topics in interdisciplinary computing that are not discussed in other courses. Topics vary. May be repeated within the same term, to a maximum of nine semester hours.

IDS 2141. Exploring Emerging Technologies (3). This course introduces students to several emerging technologies and briefly examines social, political, or legal issues surrounding the development and use of these technologies in various contexts. Students engage in structured learning activities to learn the basics about the use of selected technologies from set up to the completion of a basic project.

IDS 2144. Information Ethics for the 21st Century (3). This course identifies past, present and future information ethics challenges and encourages students to develop their own standpoints from which to address them. The primary purpose of this course is to provide students with the knowledge, skills and attitudes required to make informed ethical decisions about information production, management and use. Students explore and apply a wide range of ethical theories to examine critical information ethics issues raised by recent advances in information and communication technology.

IDS 2634. Information Literacy and Society (3). This course introduces students to the concepts of information literacy and what it means to be information literate in 21st century society. Students address the issue of information literacy by learning searching skills, gathering information from primary and derivative sources, and conducting information quality analyses. Students also work with information in real-world content domains to analyze and represent information effectively.

IDS 2683. Is Google Making Us Stupid? The Unintended Consequences of Information Technology (3). This course explores the pros and cons of information technology in our everyday lives, and examines how students can identify and mitigate against risk factors that lead to information technology disasters.

IDS 3493. Empowering Health Consumers in the eHealth Era (3). This course explores the use of emerging technologies for health information seeking, health promotion and disease prevention, and for supporting the treatment and management of chronic illnesses. Students learn how to assess users' information needs, competencies, and health behaviors in order to develop accessible, useful, and effective solutions. They also study issues and concerns influencing adoption of these technologies at different levels.

IDS 3682. Technical Communication in the Information Age (3). This course focuses on understanding the rhetorical situations and developing effective rhetorical strategies for technical communication in the information age. Attention is given to producing both technical documents and technical presentations. Emphasis is placed on the writing process, specifically on analyzing context, purpose, and audience; designing documents; and peer editing.

LIS 2360. Web Applications Development (3). This course introduces students to industry best practices and standards in proper website design and development, using object-oriented programming techniques. Coursework is focused on applying website design and development principles and techniques to projects. Students learn basic programming concepts while building an understanding of the power and complexities of modern web programming languages. The course provides a solid foundation in computer programming for the web: syntax and data structures, conditionals, objects, scope, the DOM and event handling.

LIS 2527. Digital Storytelling in Information Environments (3). This course helps students build their presentation skills through an understanding of the role of storytelling in the context of information environments such as the family, library, school, business, and social media. Students learn how to use stories to understand these environments better and to communicate, teach, learn, lead, and advocate when operating within them. Students learn traditional stories, write original stories, and present stories in class exercises and assignments. Students also learn to critique story presentations and to provide constructive feedback to other developing storytellers.

LIS 2780. Database Concepts (3). This course examines relational database management systems using a typical, commercial DBMS, such as Microsoft Access and/or MySQL and Oracle. Topics include data modeling, database design, implementation, forms and reports, and remote access to databases. The goal of this course is to provide students with a basic understanding of database design, implementation, and management concepts and techniques.

LIS 3021. Technical Communication for the Information Professions (3). Prerequisites: LIS 2780, LIS 3267, and LIS 3353. This course covers technical and professional documents generated and used by information professionals. Emphasis is on the writing process, more specifically on audience analysis, document design, collaboration, and peer editing.

LIS 3103. Information and Society (3). This course examines major issues related to living in the "information society," including information literacy, information security, identity theft, privacy, intellectual property, and information ethics. Students gain skills in searching the Web, electronic databases, and print resources. The three broad areas covered by the course are personal information management, academic information, and career/professional information.

LIS 3201. Research and Data Analysis in Information Technology (3). This course provides students with an understanding of methods and tools used by information professionals for research and data analysis. It focuses on both quantitative and qualitative methods in information technology professions including surveys, interviews, need assessments, requirements analysis, and transaction log analysis. It provides students with the opportunity to conceptualize an IT problem, develop a research plan, and design methods for assessing, collecting, analyzing, and reporting research data.

LIS 3267. Information Science (3). This course presents the history, philosophical bases, concepts, theories, and methodologies of information science. It also emphasizes the definitions and properties of information, formal and informal information systems, information origination, transfer, classification, formatting, and use.

LIS 3353. Information Technologies (3). This course provides a solid foundation in the fundamental concepts, theories and principles in information technology and discusses critical issues surrounding their use and how they impact everyday life. The course is also an understanding of the concepts and principles underlying the design and use of digital devices, computer hardware, software, telecommunications, networking and multimedia, and is an integral part of any IT curriculum.

Advanced Undergraduate Courses

LIS 3410. Societal Implications of the Information Age (3). This course explores the societal implications and unintended consequences of information technology in the 21st century, improving our understanding of the sociotechnical trade-offs that we make as we interact with new information services, systems, and technologies. It provides students with an opportunity to question their assumptions about the relationships that exist between technology and society in the information age, weigh the pros and cons of our everyday information technologies, and examine how our increased reliance on information technology has changed the way we interact with each other and the world around us.

LIS 3706. Information Systems and Services (3). Prerequisite: LIS 2780. This course provides an overview of information systems concepts and practice including system management, maintenance, assurance, and reporting services, physical and human resources. The course includes an introduction to information system hardware components, operating systems, scripting languages, with practical training in databases and networked servers. In addition, this course provides practice in managing the people, processes and events (planned or otherwise) involved in information system management.

LIS 3778. Cybersecurity for Digital Citizens (3). This course orients the digital citizen for the future. The course prepares students to understand the most common cyber-threat types, hacking techniques and fundamental protection strategies, as well as software approaches for data and information systems. Students analyze threat and attack scenarios across multiple domains, along with tactics for protection. The course engages students in critical thinking for analysis and discusses fundamental cybersecurity topics, rather than offering technical hands-on exercises.

LIS 3781. Advanced Database Management (3). Prerequisite: LIS 3784. This course explores various topics in database management systems (DBMS), using a typical commercial DMBS (e.g., MySQL, SQL Server, Oracle). Administration, security, stored procedures, triggers, transactions, functions, data mining, data warehousing, and remote access to databases are some of the topics covered. Students are expected to demonstrate an understanding of these database concepts through creating, deploying, and utilizing various relational database designs.

LIS 3784. Intermediate Database Analysis (3). Prerequisites: LIS 2780. This course examines relational database management systems using a typical, commercial DBMS, such as Microsoft Access and/or MySQL and Oracle. Topics include data modeling, database design, implementation, forms and reports, and remote access to databases. The goal of this course is to provide students with an intermediate understanding of database design, implementation, and management concepts and techniques.

LIS 3793. Information Architecture (3). This course provides an introduction to the scope and methods of information architecture, including project strategy; project scope; audience research; organization schemes, categories, and labels; identifying functional and content requirements; and interface design. The course emphasizes the interrelationships of these components and stresses the importance of developing communication skills within teams and with clients.

LIS 4022. Writing for the Information Professions (3). This course offers practical hands-on experience with forms and practices of technical and professional writing, including documentation, correspondence, audience analysis, writing for social media, evaluation, and review. The course emphasizes clear, concise, and effective writing in information technology settings, both within organizations and for user services.

LIS 4104. Social Networks (3). This course will introduce students to the history and concepts of social networks, the networked society, and to social network analytics – the discovery and communication of meaningful patterns in relational data. Students in this course will develop knowledge and skills with the tools necessary to apply network analytics to fields such as Information Technology, Business, Communications, Sports Performance, Sociology, and Education.

LIS 4264. Systems Approach in the Information Environment (3). Prerequisite: MAC 1105. This course offers an introduction to the systems approach for problem solving in an information seeker's environment. The theories and concepts of information science are integrated with a variety of practical tools for the structured design and analysis of information systems.

LIS 4276. Quantitative Methods in Information Studies (3). Prerequisites: LIS 3201 and senior standing or instructor permission. This course presents practical methods for collecting and analyzing quantitative data. Topics include hypothesis testing, analysis of variance, contingency tables, correlation, and experimental design.

LIS 4277. Usability and Usefulness of Information Systems (3). Prerequisites: LIS 3201 and LIS 4276. This course introduces students to the concepts of cognitive and human information processing, their application to information systems design, and the assessment of the usability and usefulness of information systems.

LIS 4301. Electronic Media Production (3). Prerequisites: CGS 2835 and LIS 3353. This course offers the understanding, skills, and techniques needed for the production and utilization of various types of electronic graphic resources. Emphasis is on visual literacy, the evaluation of graphic resources, design standards, and the visual representation of information. Students evaluate existing materials and design and produce materials for both electronic and print formats, including pages for the World Wide Web, slide shows for visual support of verbal presentations, and documents produced with desktop publishing software.

LIS 4331. Advanced Mobile Applications Development (3). Prerequisite: LIS 4381, or instructor permission. This course examines advanced techniques of mobile application design and development. Course applications will utilize and integrate specific mobile device features involving interface design and testing, with a priority on data handling and validation methods, life cycle events, local and remote process services, location based facilities, device sensors, network and web application programming interfaces (APIs), as well as including multimedia components. Industry best-practices are employed for real-world applications, including testing and debugging, utilizing software development methods and tools. The course provides a general understanding of bringing mobile applications to market, registering products at official portals and stores, and the details involved in distributing applications to mobile users.

LIS 4351. User Experience Design (3). This course provides a comprehensive overview of the user experience design process, and is intended to familiarize students with the methods, concepts, and techniques necessary to make user experience design an integral part of developing information interfaces. The course provides students with an opportunity to acquire the resources, skills, and hands-on experience they need to design, develop, and evaluate information interfaces from a user-centered design perspective.

LIS 4366. Web Site Development and Administration (3). Prerequisite: LIS 4301. This course covers issues and techniques related to the planning, production, and management of large World Wide Web sites, including information on organization and design, hardware and software, and cutting-edge development tools. Special emphasis is placed on information provision and the role of Web developers as providers and managers of information resources.

LIS 4368. Advanced Web Applications Development (3). Prerequisites: COP 2258, LIS 2360, and LIS 2780. This course provides a foundation in developing web applications with an emphasis on server-side concepts, tools and methods. Topics include basic web application programming, advanced object-oriented PHP and web application development. Students enrolled in this course develop basic programming skills in a modern web development environment, understand web application development principles and be able to find and use web application development resources on the Internet.

LIS 4369. Extensible Enterprise Solutions (3). Prerequisites: COP 2258, LIS 2360, and LIS 2780; each with a grade of "C–" or better. This course provides the foundational aspects of application design using procedural and object-oriented programming (OOP) concepts and techniques, employing various application development tools.

LIS 4380. Social Media Management (3). This course explores the tools, information management, and communication function of social media through hands-on work with designing and managing social media sites. Students participating in this class actively design, implement, and coordinate numerous projects that build a foundation in social media management while allowing students to gain valuable leadership, communication, and organizational skills. Students also explore the different issues and concerns that may influence the widespread adoption and implementation of social media at the individual and national levels.

LIS 4381. Mobile Application Development and Management (3). Prerequisites: COP 2258, LIS 2360, and LIS 2780; each with a grade of "C–" or better. This course focuses on concepts and best practices for developing and managing "mobile-first" technology projects. It covers processes and requirements for developing mobile web applications and principles for effective interface and user experience design. Students also examine different issues and concerns that may influence the widespread adoption and implementation of mobile web applications. Students develop a prototype of a mobile web app and prepare a proposal and other documentation for communicating contractual and functional specifications to clients.

LIS 4480r. Information Technology Leadership (3). This course focuses on leadership, group communication, project planning, strategy, and individual development, with a focus on Information Technology and its uses. Students participating in this class actively design, implement, and coordinate numerous ongoing projects that build a strong team atmosphere and allow students to gain valuable leadership, communication, and organizational skills within the context of contemporary IT organizations. May be repeated to a maximum of six semester hours; duplicate registration not allowed.

LIS 4482. Introduction to Networks and Telecommunications (3). Pre- or co-requisite: LIS 3353. This course provides a foundation in the use of networking technologies and management of modern data networks, with emphasis on the building blocks of local area networks. Subjects covered include networking architectures, topologies, models, layers, protocols, IP subnetting, equipment, operating systems, security and various tools/utilities.

LIS 4488. Network Administration for the Information Professional (3). Prerequisite: LIS 4482. This course focuses on the planning, design, configuration, operation, and management of computer networks containing data communication devices, servers, workstations, and networked applications and support systems. The course introduces students to administrative techniques inherent to basic operating systems, and also to enterprise management systems required by larger organizations. Students examine and discuss issues of scalability, performance management, and integration of internal resources with external resources such as cloud-based systems.

LIS 4701. Information and Data Visualization (3). This course allows students to expand their digital graphics skills by integrating accurate information into a visual representation, with emphasis on encouraging critical thinking, communication, media design, and lifelong information literacy skills. It introduces students to techniques to evaluate information, guide students through the design process to express their own creativity, and offers students a diverse representation of information visualization through a wide variety of past and modern examples from digital posters to data visualization.

LIS 4708. Perspective on Information Technology (3). Prerequisites: LIS 3267 and LIS 3353. In this course, graduating seniors prepare an Interactive Resume to articulate what they have learned about working productively with people, communicating effectively, managing information purposefully, and applying technology innovatively for the benefit of individuals and organizations. The course prepares students for their chosen career path by providing perspectives on the issues that they will face upon entering their career as information professionals.

LIS 4761. Data Mining and Analytics (3). Prerequisite: LIS 2780. Pre- or co-requisite: LIS 3201. This course provides an introduction to data analytics, which is defined as the extensive use of data, statistical and quantitative analysis, predictive and exploratory models to drive decisions and actions. This course is appropriate for students with basic knowledge and skills in database management systems. Prior programming skills are helpful but not required.

LIS 4770. Information and Image Management (3). This course describes the scope and the problems involved in the administrative management of records. Emphasis is placed on the importance of managing and controlling records from the time of their creation until their vital deposition.

LIS 4772. Introduction to Consumer Health Informatics (3). This course explores the design and use of emerging technologies for health promotion and disease prevention, and for supporting the treatment and management of chronic illnesses. It promotes an interdisciplinary and user-centered approach for developing applications for health consumers. Students learn how to assess users' information needs, competencies, and health behaviors in order to develop accessible and effective solutions. They also study issues and concerns influencing adoption of these technologies at different levels.

LIS 4774. Information Security (3). This course provides a comprehensive, integrated and up-to-date overview of computing security. The topics included provide students with broad and new perspectives on contemporary issues in cybersecurity. Students examine theoretical concepts that form a foundation for information systems security. Students adopt a practical, hands-on approach to examining several fundamental security technologies. The course provides students an opportunity to advance their thinking and troubleshooting ability in solving cyber threat issues.

LIS 4776. Advanced Health Informatics (3). Prerequisite: LIS 4785. This course introduces students to emerging technological solutions that can help improve healthcare delivery and healthcare decision-making. The course builds upon and extends the foundations presented in the basic health informatics course and introduces practical solutions for real-life problems faced by healthcare organizations. Students learn how to address various health IT issues and implementation challenges in the current healthcare environment. Students develop a solid practical skill set to enter the healthcare industry as health informatics specialists.

LIS 4777. Advanced Information Security (3). Prerequisite: LIS 4774. This course provides advanced knowledge on organizational computing security and contemporary issues in cybersecurity. Topics include trusted computing and multi-level security management, including risk assessment, IT controls, security auditing, along with technical networking and communication security (e.g., Internet security protocols and standards, and Internet authentication applications). The course adopts a practical, hands-on approach to examine several fundamental security technologies learned from LIS 4774 such as firewalls, intrusion detection systems, operating systems security, vulnerability assessment scanners as well as the legal and ethical aspects of penetration testing and hacking. Students also have an opportunity to advance their critical thinking and troubleshooting skills in a sandbox solving current cyber threat issues.

LIS 4785. Introduction to Health Informatics (3). This course presents how theory and practice in health care, strategy, information technology, communications, and law are integrated in the management and delivery of health care in various situations. Focus is on the emerging specialization in the health-care industry that combines expertise in health care, information technology, and information management.

LIS 4905r. Directed Individual Study (1–3). (S/U grade only.) This course consists of guided studies for individual professional and subject needs. May be repeated to a maximum of six semester hours.

LIS 4910. Information Technology Project (3). Prerequisites: LIS 3267, LIS 3353, and Senior standing (90 hours). This course consists of students working in teams and individually to manage, design, implement, and evaluate an information technology project. Students are also given evaluation and guidance on improving artifacts from projects entered into their degree portfolio during other courses within the degree program.

LIS 4930r. Special Topics in Information Technology (3). Prerequisite: Instructor permission. This course is a directed and supervised investigation of selected problems, issues, and trends in information studies, with an emphasis on research. Each offering may vary because of the evolving nature of the subject matter. May be repeated to a maximum of six semester hours.

LIS 4938. Seminar in Information Studies (3). Prerequisites: Senior standing and three of the following: LIS 3232, LIS 3267, LIS 3342, LIS 4276, and LIS 4351. This seminar involves intensive reading and preparation of position papers concerning current issues in information studies, followed by discussions of these papers with faculty and information specialists.

LIS 4940r. Internship in Information Technology (1–6). (S/U grade only.) Prerequisite: Instructor permission. Students work under the guidance and supervision of a professional in an organization that provides information services. The work is guided by learning objectives agreed upon by the site supervisor, the Internship Coordinator, and the student. Students must adhere to the human resource policies of the site organization. The course offers an ideal opportunity to test theory in practice and to gain experience in a realistic information provision environment. May be repeated to a maximum of twelve (12) credit hours.

LIS 4941r. Information Technology Practicum (3). This practicum is designed to provide the student with exposure to hands-on technical problem solving in a variety of settings. Students learn through practical experience to identify common technical problems experienced by end users; assess the scope and severity of user issues; and to develop, communicate, and implement strategies for successful problem resolution. May be repeated to a maximum of six semester hours. Duplicate registration not allowed.

LIS 4970r. Honors Work in Information Studies (1–6). Prerequisites: Admission to the honors program and information-technology major status. This course provides an opportunity for students to engage in independent and original research in a specialized area beyond the current curriculum in information technology. May be repeated to a maximum of nine semester hours. To graduate with honors in information studies, the student must complete six semester hours of coursework with at least a "B–" or better and an overall 3.2 GPA or higher.

Graduate Courses

IDC 5015. Teaching Interdisciplinary Computing (2–3).
LIS 5008. Advanced Online Searching (3).
LIS 5020. Foundations of the Information Professions (3).
LIS 5025. Educational Concepts and Strategies for School Librarians (3).
LIS 5028. Writing for the Information Professions (3).
LIS 5105. Communities of Practice (3).
LIS 5203. Information Behavior (3).
LIS 5241. International and Comparative Information Service (3).
LIS 5255. Information, Technology, and Older Adults (3).
LIS 5260. Information Science (3).
LIS 5263. Theory of Information Retrieval (3).
LIS 5270. Evaluating Networked Information Services and Systems (3).
LIS 5271. Research in Information Studies (3).
LIS 5273. Practical Library and Information Science Exploration (3).
LIS 5275. Usability Analysis (3).
LIS 5313. Digital Media: Concepts and Production (3).
LIS 5316. Information Graphics (3).
LIS 5362. Design and Production of Networked Multimedia (3).
LIS 5364. Web Site Development and Administration (3).
LIS 5367. Advanced Web Applications (3).
LIS 5385. Social Computing and Collaboration Technologies (3).
LIS 5403. Human Resource Management for Information Professionals (3).
LIS 5405. Leadership in Technology (3).
LIS 5408. Management of Information Organizations (3).
LIS 5411. Introduction to Information Policy (3).
LIS 5413. Seminar in Information Policy (3).
LIS 5416. Introduction to Legal Informatics (3).
LIS 5417. Introduction to Legal Resources (3).
LIS 5418. Introduction to Health Informatics (3).
LIS 5419. Consumer Health Informatics (3).
LIS 5426. Grant Writing, Evaluation, and Administration (3).
LIS 5441. Leadership in Reading (3).
LIS 5442. Information Leadership (3).
LIS 5472. Digital Libraries (3).
LIS 5474. Business Information and Competitive Intelligence (3).
LIS 5484. Introduction to Data Networks for Information Professionals (3).
LIS 5485. Introduction to Information Technologies (3).
LIS 5487. Information Systems Management (3).
LIS 5489. Network Administration (3).
LIS 5511. Collection Development & Management (3).
LIS 5512. School Collection Development and Management (3).
LIS 5513. Preservation of Information Materials (3).
LIS 5524. Instructional Role of the Informational Professional (3).
LIS 5528. Storytelling for Information Professionals (3).
LIS 5564. Information Needs of Children (3).
LIS 5565. Information Needs of Young Adults (3).
LIS 5566. Diverse Resources for Children and Young Adults (3).
LIS 5567. International Literature for Children and Young Adults (3).
LIS 5576. Information Needs of Adults (3).
LIS 5577. Graphic Novels in Libraries (3).
LIS 5590. Museum Informatics (3).
LIS 5602. Marketing of Library and Information Services (3).
LIS 5603. Introduction to Information Services (3).
LIS 5631. Health Information Sources (3).
LIS 5661. Government Information (3).
LIS 5703. Information Organization (3).
LIS 5711. Cataloging and Classification (3).
LIS 5736. Indexing and Abstracting (3).
LIS 5751. Computers as Persuasive Technology (3).
LIS 5771. Information and Image Management (3).
LIS 5775. Organizational Information Security (3).
LIS 5782. Database Management Systems (3).
LIS 5786. Introduction to Information Architecture (3).
LIS 5787. Fundamentals of Metadata Theory and Practice (3).
LIS 5788. Management of Health Information Technology (3).
LIS 5900r. Directed Individual Study (1–3). (S/U grade only.)
LIS 5916r. Issues in Information Studies (3).
LIS 5945r. Internship (0–12). (S/U grade only.)
LIS 6024. Seminar in Theory and Foundations of Information Sciences (3).
LIS 6027. Statistics and Data Analysis for Information Studies (3).
LIS 6040. Teaching in Information Studies (3). (S/U grade only.)
LIS 6106. Information Systems Research in Organizations and Society (3).
LIS 6205. Seminar in Information Behavior (3).
LIS 6269. Seminar in Information Science (3).
LIS 6272. Qualitative Research in Information Studies (3).
LIS 6278. Seminar in Theory Development (3–5).
LIS 6279. Research in Information Studies (3).
LIS 6289. Seminar in Education for Information Studies (3).
LIS 6662. Seminar in Information Policy (3).
LIS 6759. Seminar in Intellectual Access (3).
LIS 6909r. Directed Individual Study (1–9). (S/U grade only.)
LIS 6911r. Research Collaboration (1–5). (S/U grade only).
LIS 6919r. Issues in Information Studies (1–3).
LIS 6936r. Proseminar in IS Research and Teaching (1). (S/U grade only.)
LIS 6939. Seminar in Experimental and Survey Research Design (3).
LIS 6965r. Preliminary Exam Preparation (1–9). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

INSTITUTIONAL RESEARCH:
see Educational Leadership and Policy Studies

INSTRUCTIONAL SYSTEMS:
see Educational Psychology and Learning Systems

Undergraduate Department of INTERIOR ARCHITECTURE & DESIGN

College of Fine Arts

Website: *http://interiordesign.fsu.edu/*
Chair: Jill Pable; **Professors:** Pable; **Associate Professors:** Dawkins, Huber, Ransdell, Webber; **Assistant Professors:** McLane, Robinson, Sickler; **Specialized Faculty:** O'Keefe; **Adjunct Faculty:** Nasab, Osborne, Saginario, Willoughby; **Professors Emeriti:** Butler, Koenig, Munton, Myers, Ohazama, Waxman, Wiedegreen,

The Department of Interior Architecture & Design addresses design issues in all interior spaces, including both residential and nonresidential. Students are prepared to meet professional requirements and criteria for the practice of interior design, membership in professional organizations, and state licensure. A professional designer is defined by the national accrediting body, the Council for Interior Design Accreditation (CIDA), as one who is "qualified by education, experience, and examination to enhance the function and quality of interior spaces for the purpose of improving the quality of life, increasing productivity, and protecting health, safety, and welfare of the public." The Department of Interior Architecture & Design is accredited by the Council for Interior Design and Accreditation (CIDA) and the National Association of Schools of Art and Design (NASAD).

The competencies taught include elements and principles of design, design analysis, space planning and programming, drafting and technical drawing, computer-aided design and building information modeling, graphic presentation of design solutions, design history, sustainability, construction systems, construction documents, and includes comprehensive design studios addressing a variety of design solutions. There are active student chapters of the American Society of Interior Designers (ASID) and the International Interior Design Association (IIDA). The faculty includes members of ASID, IIDA, the Interior Design Educators Council (IDEC), and the American Institute of Architects (AIA).

The undergraduate program offers the Bachelor of Science (BS) and the Bachelor of Arts (BA) degrees in interior design. Students must consult the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for BA degree requirements.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in interior design satisfy this requirement by earning a grade of "C–" or higher in IND 3469.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed at FSU prior to being formally admitted to the program. Students may be admitted to FSU without the prerequisites.

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Interior Design

1. IND X206
2. IND X406
3. IND X203
4. IND X204
5. ARH X057 or ARH X051: coursework in art history (Renaissance through contemporary) for three credit hours is required by the department and may also be used to meet a general education/liberal studies humanities requirement

Degree Requirements

The undergraduate degree program consists of seventy-seven semester hours of coursework in interior design. Students are required to participate in an internship for three credit hours prior to graduation. Any exceptions must be submitted to the chair for review.

Specific degree requirements include the following:

1. Liberal studies: of the required and elective semester hours, three must be taken in ARH X051, an art history course. Refer to the 'Liberal Studies for the 21st Century' section in the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for specific degree requirements. Contact the program advisor for further information if needed.
2. Foundation classes: nine semester hours
3. Interior design studio courses: twenty-six semester hours
4. Technical and graphic design courses: twenty-one semester hours
5. Lecture-based support courses: twelve semester hours
6. History of interiors and architecture: six semester hours
7. Internship: three semester hours
8. Electives in interior design: none required, but students must have at least 120 hours to graduate.

Requirements for Bachelor of Arts Degree (only)

1. Electives in art-related courses must also meet University humanities requirement
2. Language requirement is the equivalent of two years of language proficiency (no credit requirement).

Refer to the 'Liberal Studies for the 21st Century' section in the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for specific degree requirements.

Requirements for a Major in Interior Design

The program is a limited access major with required sequential course offerings and elective courses in interior design. Three diagnostic courses are offered during the first year of study (IND 1203, 1204, and 2002). All prerequisite diagnostic classes must be taken at FSU. In a review of design work generated from these three classes, along with the student's cumulative college GPA and faculty evaluation of attitude and work ethic, up to thirty-eight students are chosen to move forward into the second year and are formally accepted into the major. It is recommended that transfer students take all three first-year diagnostic courses at Florida State University during the Summer term, and then go through First Year Review in August. Although transfer students can start in any semester, a summer start is the fastest path.

A specific listing of courses required for a major in interior design is available on the department Web site at *http://interiordesign.fsu.edu*. A minor is not required, but may be obtained in other areas (departmental advisement required prior to electing a minor).

Students majoring in interior design must maintain the minimum GPA for semester and overall averages, and achieve a minimum grade of "C" in all interior design classes. Students must repeat classes in which they earn a grade below a "C", but only two classes may be repeated. Students who need to repeat more than two classes in the program will be removed from the program.

Honors in the Major

The Department of Interior Architecture & Design offers a program in honors in the major to encourage talented juniors and seniors to undertake independent research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

IND—Interior Design

Undergraduate Courses

IND 1203. Design Fundamentals I (3). This course is the study and development of two- and three-dimensional design projects using the elements and principles of design.

IND 1204. Design Fundamentals II (3). Prerequisite: IND 1203. This course is the continuing study and development of two- and three-dimensional design projects using the elements and principles of design leading to the development of architectural space.

IND 1206. Introduction to Interior Design (3). This course is a survey of the elements and principles of interior design to create an awareness of the made environment and a comprehensive appreciation of design.

IND 2002. Survey of Interior Design (3). This course offers a survey of the elements and principles of interior design and creates an awareness of the built environment and a comprehensive global appreciation of design. The presentation of major elements in residential and commercial interiors is aimed at self-application and beginning designers.

IND 2300. Graphic Techniques I (3). Prerequisite: First year review. This course is an introduction to achromatic media used in sketching, rendering, and design drawing, with an emphasis on schematics used in problem solving.

IND 2310. Graphic Techniques II (3). Prerequisite: IND 2300. This course is an introduction to contemporary graphics color media, reproduction processes, and presentation drawings, with a focus on the reinforcement of perspective and freehand drawing proficiencies, as well as rapid rendering techniques for interior delineation.

IND 3217C. Interior Design Studio I (4). This course is an introduction to the fundamental elements and principles of design, design process, problem solving, space planning, and specifications.

IND 3431. Lighting Fundamentals (3). Prerequisite: IND 3217C. This course explores the advanced technical aspects of interior design with emphasis on lighting, electrical plans, reflected ceiling plans, measurements, and acoustics.

IND 3440C. Furniture Design (4). Prerequisite: IND 3217C. This course focuses on the study of materials, structural considerations, function, and style of furniture and case goods by developing and appreciating their design and construction.

IND 3465. Computer-Aided Design I (3). Prerequisite: First year review. This course is an introduction to computer-aided design and drafting using AutoCAD software. Students develop an understanding of the software and how designers and architects use computers.

IND 3469. Computer-Aided Design II (3). Prerequisite: IND 3465. This course is an advanced computer-aided design class. Students increase their knowledge of 3D AutoCAD, learn the basics of Autodesk Viz software, and receive an overview of PhotoShop.

IND 3470. Construction Systems (3). Prerequisite: IND 3217C. This lecture course focuses on general construction techniques and terminology, integrating the building systems of structure, plumbing, and mechanical and fire safety.

IND 3474. Construction Documents (3). Prerequisite: IND 3469. This studio course focuses on the generation of a comprehensive set of specifications and construction drawings for a single project.

IND 3480. Materials and Methods (3). Prerequisite: A textiles course. This course involves the study of furnishings and finishes for interiors with an emphasis on both aesthetic and performance qualities of the materials typically utilized in interior space.

IND 3529. Portfolio Development I (1). This course is designed to assist students in developing the documents necessary to represent their professional identity.

IND 3533. Portfolio Development II (1). Prerequisite: IND 3529. This course provides students with the skills and knowledge they need to develop the graphic documents necessary to represent their creative work.

IND 3627. Principles of Sustainable Design (3). This course gives students a basic introduction to the fundamentals of sustainable design in order to better understand the inter-relationships between the built environment and nature.

IND 3930r. Special Topics in Interior Design (1–3). May be repeated to a maximum of twelve semester hours.

IND 4101. History of Interiors I (3). Prerequisites: ARH 2051. The course focuses on historical and theoretical explorations of architecture, interiors, furniture design, and decorative arts from antiquity through the end of the 18th century.

IND 4131. History of Interiors II (3). Prerequisites: IND 4101 and ARH 2051. This course focuses on historical ad theoretical explorations of architecture, interiors, furniture design, and decorative arts from the early 19th century through today.

IND 4156r. Historical Restoration, Research and Documentation (3–6). This course includes study, research, and documentation of restoration and preservation procedures, sources of antiquities, and reproductions. Includes field trips. May be repeated to a maximum of six semester hours.

IND 4161r. History of Interiors III (3). This course includes the study of architecture, interior, and furniture design from the 19th century to the present. May be repeated to a maximum of six semester hours.

IND 4218C. Interior Design Studio II (4). Prerequisite: IND 3217C. This course consists of intermediate projects in creative problem solving applied to both residential and contract interiors. Emphasis on graphic communication and presentation.

IND 4242C. Interior Design Studio III (4). Prerequisite: IND 4218C. This course consists of advanced projects in creative problem solving with emphasis on programming, spatial analysis, and open-office systems.

IND 4243C. Interior Design Studio IV (4). Prerequisite: IND 4242C. This course is an advanced application of the design process with emphasis on individual professional objectives and procedures for portfolio presentation.

IND 4245C. Interior Design Studio V (4). Prerequisite: IND 4243C. This course is the undergraduate capstone studio and includes the design of a large-scale commercial space focusing on design development through final drawing production.

IND 4506. Business Practices for Interior Designers (3). This course involves analysis and application of current business practices by professional interior designers.

IND 4601. Sociological and Psychological Aspects of Design (3). Prerequisite: First year review. This course is an exploration of the relationship between humans and their environment through the study of personal and social use of space, proxemics, spatial analysis, and the effects of the environment on human behavior.

IND 4905r. Directed Individual Study (1–3). (S/U grade only.) This course enables students to pursue independent work in the area of delineation or resources under the direction of a faculty member. May be repeated to a maximum of twelve semester hours.

IND 4947r. Internship (3). This internship enables students to pursue experience with design firms or other related fields under the direction of a faculty member or supervisor. May be repeated to a maximum of nine (9) credit hours.

IND 4970r. Honors in the Major (3). For honors credit, the Department of Interior Architecture & Design requires a two-term honors program consisting of six thesis or project hours to be counted toward elective credit. Upon meeting Florida State University's requirements for honors courses, the students pursue independent creative and academic research as part of the undergraduate program.

Graduate Courses

IND 5005. Survey of Interior Design (5).
IND 5028. Creative Problem-Solving (3)
IND 5105r. History of Interiors Seminar I (3).
IND 5135r. History of Interiors Seminar II (3).
IND 5157. Historical Restoration, Research and Documentation (3).
IND 5165r. History of Interiors Seminar III (3).
IND 5208. Design Fundamentals (3).
IND 5235. Graduate Studio I (3).
IND 5236. Graduate Studio II (3).
IND 5257. Graduate Studio III (3).
IND 5258. Graduate Studio IV (3).
IND 5280. Graduate Studio V (3).
IND 5281C. Graduate Studio VI (5).
IND 5282C. Graduate Studio VII (5).
IND 5315. Advanced Visual Communication (3).
IND 5316r. Design Graphics II (1–4).
IND 5317. Design Graphics I (3).
IND 5425. Graduate Technical Design (3).
IND 5428. Materials and Methods (3).
IND 5435. Graduate Lighting Seminar (4).
IND 5445. Graduate Furniture Design (3).
IND 5476. Computer-Aided Design I (3).
IND 5477. Computer-Aided Design II (3).
IND 5479. Construction Systems (3).
IND 5487. Construction Documents (3).
IND 5508. Professional Practices (3).
IND 5526. Graduate Portfolio Review II (1). (S/U grade only.)
IND 5528. Graduate Portfolio Review I (1). (S/U grade only.)
IND 5609. Graduate Seminar: Social-Psychological Aspects of Design (3).
IND 5628. Principles of Sustainable Design (3).
IND 5634r. Pre-Design Research and Programming (3–6).
IND 5636. Graduate Seminar: Design Theory and Criticism (3).
IND 5637. Graduate Seminar: Research Methods in Design (3).
IND 5638. Graduate Seminar: Design Issues (3).
IND 5910r. Directed Individual Study (1–3). (S/U grade only.)
IND 5911r. Supervised Research (1–5). (S/U grade only.)
IND 5930r. Special Topics in Interior Design (1–4).
IND 5944r. Field Research in Space Organization (1–8).
IND 5945r. Supervised Teaching (1–3). (S/U grade only.)
IND 5948r. Graduate Internship (1–3). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Program in INTERNATIONAL AFFAIRS

College of Social Sciences and Public Policy

Website: *https://www.coss.fsu.edu/internationalaffairs/*
Director: Lee Metcalf (Social Sciences); **Director of Undergraduate Studies:** Whitney Bendeck (Social Sciences); **Director of International Economic Education:** Onsurang Norrbin (Economics); **Director of Internships and Professional Development:** Na'ama Nagar (Political Science)

The Departments of Anthropology, Economics, Geography, History, Modern Languages and Linguistics, Philosophy, Political Science, Religion, Sociology, and Urban and Regional Planning, as well as the School of Public Administration and Policy, cooperate in the offering of an interdepartmental major and minor in international affairs at the undergraduate level. The program develops a student's knowledge of global history, culture, and contemporary political and economic issues. The requirements for the international affairs major allow students to pursue a variety of distinct interests that align with a student's personal and professional goals. Employment opportunities are to be found in government service, international organizations (public, private, or non-profit), business, journalism, and teaching.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in international affairs satisfy this requirement by earning a grade of "C–" or higher in any course at FSU which meets the liberal studies computer competency designation, though it is strongly recommended that students take either CGS 2060 or CGS 2100 in order to satisfy this requirement.

Requirements for a Major in International Affairs

Majors in international affairs must complete a minimum of thirty-nine semester hours beyond liberal studies requirements or the A.A. degree, with a grade of "C–" or better in each course. A minimum cumulative grade point average (GPA) of 2.0 in all coursework applied to the major must be maintained. All courses counted toward the international affairs major must come from the approved list of courses in the participating and non-participating departments provided by the International Affairs program each semester. These term course lists are available in the program office in *211 Bellamy*, the advising office in *106 Bellamy*, and on the *International Studies Canvas* site. A master list of approved courses (excluding approved Special Topics courses) in the participating departments is provided below. Coursework must be selected from at least three participating departments and must include the required core course INS 3003 (Introduction to International Affairs). INS 3003 meets the university requirement for upper-division writing (*liberalstudies.fsu.edu*). A minimum of twelve semester hours and a maximum of eighteen semester hours must be in one of the participating departments for a departmental concentration. No more than eighteen credit hours may be taken in one department. At least eighteen semester hours must be above the 2999 level. A maximum combined total of twelve semester hours in internship (INR 4941 or INS 4940), directed individual study (INR 4905), or upper-division honors in the major (INR 4937) may be credited to the major. Students may choose to obtain either a Bachelor of Arts (BA) degree or a Bachelor of Science (BS) degree, but in both cases must complete modern foreign language coursework to the intermediate level (2220 or equivalent course) or demonstrate intermediate proficiency in reading, writing, and speaking a modern foreign language. Any credit hours taken to meet this requirement do not count towards the 39 credit hours required to complete the major.

Majors must also complete the University computer skills competency requirement (see above).

Students are advised to coordinate their coursework with foreign language study, focusing on a regional concentration (e.g., Africa, the Middle East, East or South Asia, Russia, Eastern and Central Europe, Western Europe, or Latin America). Majors are encouraged to include such courses as CPO 2002, INR 2002, ECO 2013 and 2023, GEA 1000, and WOH 1030 among the courses they take to fulfill the liberal studies requirements (if those courses are taken to fulfill the liberal studies requirements, however, they cannot also be counted toward the major requirements).

In addition to a 2.0 overall GPA all students must meet "mapping" requirements. See *http://www.academic-guide.fsu.edu* for more information.

Study Abroad

Students majoring in international affairs are strongly encouraged to study abroad either through FSU International Programs (*international.fsu.edu*) or the Center for Global Engagement (*cge.fsu.edu*). Students are able to earn academic credit towards the international affairs major at a variety of international destinations. Students should consult with their academic advisor about any study abroad programs they wish to pursue. Coursework taken abroad must be approved in advance for credit toward the major.

Internship

The Program in International Affairs encourages students to take advantage of internships at the state, national, and international level. There are opportunities to work in the international arena through agencies and businesses in Florida's capital, the Washington Center Program in Washington, DC., and Florida State's International Programs in Valencia, Panama, and London. Most significantly, international affairs students can apply for one of the several prestigious internships in London, where we place our students in Parliament, the American Embassy, Amnesty International, NBC, the Associated Press, the British-American Chamber of Commerce, and other significant organizations, or in Panama where the United Nations has a regional office. Information and application materials are available on the *International Studies* Canvas site. Applications must be submitted and all internships must be approved the semester before the internship takes place. If approved, the student will be enrolled in INR 4941: Internship, which meets the university's formative experience requirement (*liberalstudies.fsu.edu*). See the International Affairs program advisor in *211 Bellamy* for further information.

Honors in the Major

The Program in International Affairs offers honors in the major (INR 4937) to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Second Majors

When students pursue a second major, they may count six semester hours of coursework toward both of their majors. Otherwise, all major requirements are listed above.

Requirements for a Minor in International Affairs

A minor consists of eighteen semester hours beyond the liberal studies requirements (or courses used to satisfy general education requirements for an A.A. degree) with grades of "C–" or better. Work must be taken in at least three participating departments, and all of those courses must be from the approved list of courses below or terms lists provided by the program. Modern language courses numbered above 2999 may count toward the minor. Nine of the eighteen semester hours must be numbered above 2999. A maximum combined total of six semester hours in internship or directed individual study may apply to the minor.

Approved Courses

Descriptions of individual courses can be found under the departments in which they are taught. It is the student's responsibility to verify course pre-requisite requirements at *registrar.fsu.edu/bulletin/undergraduate*.

Note: In addition to the courses listed below, special topics courses may be approved by the program director in any particular term. These courses appear on the term course lists and are available in the program office in *211 Bellamy*, the advising office in *106 Bellamy*, and on the *International Studies* Canvas site.

Required Core Course

INS 3003 Introduction to International Affairs (3)

Anthropology

ANT 2138 World's Greatest Shipwrecks (3)
ANT 2410 Introduction to Cultural Anthropology (3)
ANT 2416 Childhood Around the World (3)
ANT 2470 The Anthropology of Globalization (3)
ANT 3141 World Prehistory (3)
ANT 3212 Peoples of the World (3)
ANT 3451 Race: Biology & Culture (3)
ANT 3610 Language and Culture (3)

ANT 4142 European Prehistory (3)
ANT 4163 Mesoamerican Archaeology (3)
ANT 4175 Archaeology Islamic World (3)
ANT 4241 Anthropology of Religion (3)
ANT 4277 Human Conflict: Theory and Resolution (3)
ANT 4302 Sex Roles in Cross-Cultural Perspective (3)
ANT 4309 Conquest of the Americas (3)
ANT 4323 Peoples and Cultures of Mexico and Central America (3)
ANT 4337 Peoples and Cultures of Amazonia (3)
ANT 4352 Peoples and Cultures of Africa (3)
ANT 4363 Japanese Society and Culture (3)

Economics (see course descriptions and/or advisor about required prerequisites)

ECO 2000 Introduction to Economics (3) *Should not be taken after ECO 2013 or ECO 2023*
ECO 2013 Principles of Macroeconomics (3)
ECO 2023 Principles of Microeconomics (3)
ECO 3303 History of Economic Ideas (3)
ECO 4132 Economics of Compassion (3)
ECO 4704 International Trade (3)
ECO 4713 International Finance (3)
ECP 3010 Economics of Art and Culture (3)
ECP 3113 Economics of Population (3)
ECP 3302 Economics of Natural Resources, Energy and the Environment (3)
ECP 3617 Land Use, Housing, and Government Regulation (3)
ECP 4613 Urban Economics (3)
ECP 4618 Research Methods for Studying Housing, Land and Cities (3)
ECS 3003 Comparative Economic Systems (3)
ECS 3022 Social Entrepreneurship and Economic Development (3)
ECS 3200 Economics of Asia (3)
ECS 4013 Economics of Development (3)
ECS 4431 Economics of the Caribbean (3)

Geography

GEA 1000 World Geography (3)
GEA 2210 United States and Canada (3)
GEA 3563 The Mediterranean (3)
GEA 4405 Latin America (3)
GEA 4500 Europe (3)
GEA 4520 Britain and Ireland (3)
GEA 4554 Russia and Southern Eurasia (3)
GEA 4635 Geography of the Middle East (3)
GEO 1330 Environmental Science (3)
GEO 1400 Human Geography (3)
GEO 3502 Economic Geography (3)
GEO 4251 Geography of Climate Change and Storms (3)
GEO 4280 Geography of Water Resources (3)
GEO 4340 Living in a Hazardous Environment (3)
GEO 4344 Environmental Disasters and Apocalypse (3)
GEO 4357 Environmental Conflict and Economic Development (3)
GEO 4403 Global Change, Local Places (3)
GEO 4404 Black Geographies (3)
GEO 4412 Environment and Gender (3)
GEO 4421 Cultural Geography (3)
GEO 4450 Medical Geography (3)
GEO 4471 Political Geography (3)
GEO 4503 Globalization (3)
GEO 4602 Urban Geography (3)
GEO 4700 Transport Geography (3)

History

All history courses are on the list of courses approved for international affairs majors **except** those courses with the AMH (American History) or the HIS prefix. Only four AMH courses and three HIS courses are on the approved list for international affairs majors, namely:

AMH 3540 Military History of the United States (3)
AMH 3544 The United States and Vietnam 1941–1975 (3)
AMH 4511 Twentieth-Century United States Foreign Relations (3)
AMH 4530 U.S. Immigration History (3)
HIS 2050 The Historian's Craft (3)
HIS 3464 History of Science (3)
HIS 4250 War and the Nation State (3)

Modern Languages

Those credit hours earned by taking courses to fulfill the modern language requirement (which must be met by all international affairs majors) cannot be counted toward the international affairs major. Students may, however, earn credit toward the major for **additional** courses in modern languages. For a departmental concentration in modern languages, students must have a minimum of twelve semester hours of advanced-level coursework in one language, not to include more than two courses in culture and/or literature. Courses listed below do not require prerequisite language course background.

CHT 3123 Pre-Modern Chinese Literature and Culture (3)
CHT 3391 Chinese Cinema and Culture (3)
FRT 3140 Masterworks of French Literature in Translation (3)
FRT 3520r French and Francophone Cinema (3)
FRT 3561 French Women Writers (3)
FRW 4770 Francophone Caribbean/African Cultures (3)
GET 3130 Masterpieces of German Literature in Translation: 19th and 20th Centuries (3)
GET 3524r German Cinema (3)
ITT 3114 Dante's Inferno (3)
ITT 3430 Masterpieces of Italian Literature in Translation (3)
ITT 3500 Italian Culture and Civilization: From Origins to the Age of Romanticism (3)
ITT 3501 Modern Italian Culture: From the Unification to the Present (3)
ITT 3523r Italian Cinema (3)
JPT 3122r Modern Japanese Literature in Translation (3)
JPT 3330 Premodern Japanese Literature in Translation (3)
JPT 3391r Japanese Film and Culture (3)
LIN 3041 Introduction to Linguistics (3)
LIN 4040 Introduction to Descriptive Linguistics (3)
LIN 4664 Ethnopoetics (3)
PRT 3391r Brazilian Literature and Film in Translation (3)
RUT 3110 Russian Literature in English Translation (3)
RUT 3504 Modern Russian Life (3)
RUT 3505 Russian Culture and Civilization (3)
RUT 3514 Russian Folklore and Fairy Tales (3)
RUT 3523r Russian Cinema (3)
RUT 4213 Russian Love Prose in English Translation (3)
SLL 3500 Slavic Culture and Civilization (3)
SLL 3510 The Slavic Vampire (3)
SPT 3100 Spanish Literature in Translation (3)
SPT 3130 Latin American Literature in Translation (3)
SPT 3391r Hispanic Cinema (3)
SPT 3503 Introduction to Hispanic Cultural Analysis (3)

Philosophy

PHH 3400 Modern Philosophy (3)
PHH 3500 19th-Century Philosophy (3)
PHH 4600r Contemporary Philosophy (3)
PHI 2010 Introduction to Philosophy (3)
PHI 2620 Environmental Ethics (3)
PHI 3220 Philosophy of Language (3)
PHI 3400 History and Philosophy of Science (3)

PHM 2300 Introduction to Political Philosophy (3)
PHM 3331r Modern Political Thought (3)
PHM 3351 Philosophy of Human Rights (3)
PHM 3400 Philosophy of Law (3)
PHM 4340r Contemporary Political Thought (3)
PHP 3510 Introduction to Marxist Philosophy (3)

Political Science (see course descriptions and/or advisor about required prerequisites)

CPO 2002 Introduction to Comparative Government and Politics (3)
CPO 3034 Politics of Developing Areas (3)
CPO 3055 Authoritarian Regimes (3)
CPO 3101 European Union (3)
CPO 3103 Comparative Government and Politics: Western Europe (3)
CPO 3123 Comparative Government and Politics: Great Britain (3)
CPO 3303 Politics of Latin America (3)
CPO 3403 Comparative Government and Politics: The Middle East (3)
CPO 3520 Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3)
CPO 3541 Politics of China (3)
CPO 3615 Post-Soviet Politics (3)
CPO 3703 Comparative Democratic Institutions (3)
CPO 3743 States and Markets (3)
CPO 3930r Special Topics in Comparative Government and Politics (1–3)
CPO 4057 Political Violence (3)
CPO 4504 Institutional Approaches to Democracies and Dictatorships (3)
INR 2002 Introduction to International Relations (3)
INR 3004 Geography, History, and International Relations (3)
INR 3084 Terror and Politics (3)
INR 3502 International Organization (3)
INR 3603 Theories of International Relations (3)
INR 3933 Special Topics in International Relations (3)
INR 4011 Political Responses to Economic Globalization (3)
INR 4075 International Human Rights (3)
INR 4078 Confronting Human Rights Violations (3)
INR 4083 International Conflict (3)
INR 4102 American Foreign Policy (3)
INR 4124 Statecraft (3)
INR 4244 Studies in International Politics: Latin America (3)
INR 4274 Studies in International Politics: The Middle East (3)
INR 4334 American Defense Policy (3)
INR 4702 Political Economy of International Relations (3)

Public Administration

PAD 3003 Public Administration in American Society (3)
PAD 3013 Futures Studies (3)
PAD 4075 Unmanned Aircraft Systems in Emergency Management (3)
PAD 4170 Nongovernmental Organization in Development (3)
PAD 4301 Disaster Management Planning for Urban Poor Communities (3)
PAD 4374 Introduction to Terrorism: Preparedness and Response (3)
PAD 4375 Advanced Topics Terrorism (3) *Requires prerequisite course PAD 4374*
PAD 4380 Disasters: From Shock to Recovery (3)
PAD 4391 Foundations in Emergency Management (3)
PAD 4393 Emergency Management Programs, Planning, and Policy (3)
PAD 4433 Women, Disasters and Conflict (3)
PAD 4831 International Conflicts and Terrorism (3)
PAD 4841 Intelligence Analysis and Communication (3)
PAD 4842 U.S. Intelligence Policy (3)
PAD 4843 U.S. Intelligence Community (3)
PAD 4833 International and Comparative Disaster Management (3)
PAD 4844 Public Health and Emergency Management (3)
PAD 4890 Homeland Security (3)
PAD 4897 Global Security and Fusion (3)
PAD 4891 Non-Profits, NGO's and Disaster (3)

Religion

REL 1300 Introduction to World Religions (3)
REL 2210 Introduction to Old Testament (3)
REL 2240 Introduction to New Testament (3)
REL 2315 Religions of South Asia (3)
REL 2350 Religions of East Asia (3)
REL 3112 Religion and 20th Century Fantasy Literature (3)
REL 3142 Religion, the Self, and Society (3)
REL 3145 Gender and Religion (3)
REL 3152 Religion, Race, and Ethnicity (3)
REL 3160 Religion and Science (3)
REL 3170 Religious Ethics and Moral Problems (3)
REL 3194 The Holocaust (3)
REL 3333 Ramayana in Indian Culture and Beyond (3)
REL 3337 Goddesses, Women and Power in Hinduism (3)
REL 3340 The Buddhist Tradition (3)
REL 3345 Chan Zen Buddhism (3)
REL 3351 Japanese Religions (3)
REL 3358 Tibetan and Himalayan Religions (3)
REL 3363 Islamic Traditions (3)
REL 3367 Islamic Traditions II: Islam up to the Modern World (3)
REL 3370 Religion in Africa (3)
REL 3430 Issues and Thinkers in Western Religious Thought (3)
REL 3431 Critics of Religion (3)
REL 3505 The Christian Tradition (3)
REL 3607 The Jewish Tradition (3)
REL 4304 Undergraduate History of Religions Seminar (3)
REL 4335 Modern Hinduism (3)
REL 4359r Special Topics in Asian Religions (3)
REL 4510 Christianity After the New Testament (3)
REL 4613 Modern Judaism (3)

Sociology

SYD 2740 Sociology of Law and Hispanics (3)
SYD 3020 Population and Society (3)
SYD 3600 Cities in Society (3)
SYD 4510 Environmental Sociology (3)
SYD 4700 Race and Minority Group Relations (3)
SYG 1000 Introductory Sociology (3)
SYG 2010 Social Problems (3)
SYO 3530 Social Classes and Inequality (3)
SYO 4300 Sociology of Politics (3)
SYP 3000 Social Psychology of Groups (3)
SYP 3454 The Global Justice Movement (3)
SYP 4650 Sports and Society (3)

Urban and Regional Planning (see course descriptions and/or advisor about required prerequisites)

URP 3000 Introduction to Planning and Urban Development (3)
URP 4402 Sustainable Development Planning in the Americas (3)
URP 4404 River Basin Management and Planning (3)
URP 4618 Planning for Developing Regions (3)
URS 1006 World Cities: Quality of Life (3)

Definition of Prefixes

IDS—Interdisciplinary Studies
INR—International Relations
INS—International Studies
PAX—Peace Studies

Undergraduate Courses

IDS 2060. Formative Experience: Global Engagement (1). (S/U grade only.) This course gives students the opportunity to study a different country's unique customs, values, and traditions and compare it with their own through actively participating in cultural experiences.

IDS 2431. Thinking Beyond Ourselves: Global Perspectives (3). This course is designed to introduce the students to the basic concepts, theories, functions and behaviors associated with intercultural communication. Throughout the course, students increase in knowledge, understanding and awareness of different cultures and countries, interpret cultural values and communication strategies used across cultures/countries, and become more effective in engaging in the 21st-century globalized world.

IDS 3365. Global Conflicts: Analysis and Resolution (3). This course is designed to introduce students to the basic concepts, theories and frameworks of conflict analysis and resolution. Throughout the course students gain a thorough perspective of the conflict resolution field, theoretical orientations and practical applications to building peace. The course aims to engage students in inquiring persistent questions about the world dynamics, interactions and relationships that lead to conflict and peace.

INR 3931r. Special Topics (1–3). (S/U grade only.) Topics vary. May be repeated within the same term to a maximum of nine semester hours.

INR 3932r. Special Topics in International Affairs (1–12). Topics vary. May be repeated as topics change to a maximum of fifteen semester hours.

INR 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

INR 4937r. Honors Work (1–6). May be repeated to a maximum of nine semester hours.

INR 4941r. Internship (3–6). (S/U grade only.) Prerequisites: Fifteen classroom hours beyond liberal studies, a minimum cumulative GPA of 3.0, and instructor permission. This internship course allows students to gain real world experience through on-the job-practice in approved agencies and organizations. Students gain valuable work experience, develop professional skills, cultivate valuable contacts and investigate career options. Designed to provide practical experience in the area of international affairs. May be repeated to a maximum of eighteen semester hours within the same term.

INS 2912. Developing Global Citizens: Global Issues in Theory and Practice (3). Prerequisites: IDS 2431, or IDS 2930, topic "Global Perspectives"; and enrollment in the Global Citizenship Certificate program. This course is the final required class for the Global Citizenship Certificate. The course increases students' global competencies by utilizing theories and concepts learned during the Global Perspectives course and applies those to higher-level critical thinking and research. The course explore topics relevant to today's global society such as extreme poverty and inequality, international trade, political cooperation, climate change, race, and ethnicity and gender.

INS 3003. Introduction to International Affairs (3). This course introduces students to the core questions and concerns of international affairs. This course surveys the many distinct academic disciplines that together contribute to the development of an interdisciplinary understanding of the international system. The course examines how each of these disciplines understands the international system, the questions it raises, and its strengths and weaknesses. In addition, the course provides an introduction to many of the global issues of interest to international affairs majors, including terrorism, democracy, and globalization. At the end of this course, students have the skills and knowledge required to construct their own specialized plan of study in international affairs.

INS 4940. Washington Center Internship (6). This internship will provide students with an excellent opportunity to explore their career interests. Moreover, internships will help students achieve a better understanding to what they still need to learn and which skills they need to improve. Finally, internships will facilitate the development of professional networks that will be paramount once students graduate and enter the job market.

PAX 3930r. Special Topics in Peace Studies (3). Topics vary. May be repeated to a maximum of fifteen semester hours.

Graduate Courses

INR 5012. Problems of Globalism (3).
INR 5906r. Directed Individual Study (1–6). (S/U grade only.)
INR 5910r. Supervised Research (1–3). (S/U grade only.)
INR 5935r. Special Topics (1–3). (S/U grade only.)
INR 5936r. Special Topics in International Affairs (1–3).
INR 5938. Joint Seminar in International Affairs (3).
INS 5935. International Dialogue Seminar (3).

For listings relating to graduate coursework for thesis, master's comprehensive examination, and thesis defense, consult the *Graduate Bulletin*.

INTERNATIONAL/INTERCULTURAL DEVELOPMENT EDUCATION:
see Educational Leadership and Policy Studies

ITALIAN:
see Modern Languages and Linguistics

Undergraduate Program in LATIN AMERICAN AND CARIBBEAN STUDIES

College of Social Sciences and Public Policy

Website: *https://coss.fsu.edu/lacs*

Director: Lee Metcalf (Social Sciences); **Director of Internships and Professional Development:** Na'ama Nagar (Political Science)

The Program in Latin American and Caribbean Studies (LACS) is designed to inspire and develop knowledge and experience of the region. Interdisciplinary by design, cooperating departments support innovative blends of teaching and research with the goal of providing undergraduates a solid grasp of Latin America's present and past, and emphasizing major aspects of the region's unique structures. Additionally, majors and minors are encouraged to participate in the related programs in Costa Rica and Panama. As the intellectual home for an interdisciplinary community of scholars, students, and visitors, LACS supports a range of research and teaching amid a broader array of sponsored lectures, cultural events, and internships.

The baccalaureate program may be viewed as preparation for graduate school in various fields or as leading to professions in government and international service, multinational commerce, law, teaching, and translation.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Latin American and Caribbean studies satisfy this requirement by earning a grade of "C–" or higher in any course at FSU which meets the liberal studies computer competency designation, though it is strongly recommended that students take either CGS 2060 or CGS 2100 in order to satisfy this requirement.

Requirements for a Major in Latin American and Caribbean Studies

Students majoring in the program are to construct their study program around three components: (1) a language requirement, (2) an area-specific coursework requirement, and (3) a concepts and theories requirement. The total hour requirements for the major are thirty-six semester hours beyond the liberal studies requirements (with a grade of "C–" or better in each of the Latin American and Caribbean studies courses). As this is an interdisciplinary program, no minor is required.

In addition to a 2.0 overall GPA, all students must meet "mapping" requirements. See *http://www.academic-guide.fsu.edu* for more information.

Language Requirement

All students are also required to complete relevant area language coursework to the intermediate level or demonstrate proficiency to the intermediate college level in Spanish, Portuguese, French, or some other relevant area language. Students are encouraged to bring their chosen language up to an effective level of proficiency in reading, writing, and speaking by either taking additional coursework on the campus of Florida State University or by participating in a semester- or summer-abroad program in their relevant cultural area as such programs become available. These programs should be administered by, affiliated with, or approved by Florida State University. To encourage the achievement of language proficiency, language coursework hours taken beyond the intermediate college level may be counted toward the required thirty-six semester hours for the major.

Area Specific Course Requirement

Students are to select at least twenty-four semester hours of area specific coursework from the approved list of area-specific courses below. Note that special topic area-specific courses may be approved from time to time; for the most current list, students are encouraged to view the term-specific course lists posted on the *International Studies* Canvas site and available in the advising office in *105 Bellamy* and the program office in *211 Bellamy*.

Concept and Theory Course Requirement

Students are to select at least six semester hours of coursework from the approved list of concept and theory courses. Students should carefully select these courses in consultation with their academic advisor to ensure that the courses meet any required prerequisites for the approved courses.

Additional Course Requirement

The remaining six credit hours may be selected from any approved Latin American and Caribbean Studies course and/or approved internship (INR 4941).

Latin American and Caribbean Studies Major with an emphasis in Business

This degree program combines the regular Latin American and Caribbean studies major with a planned series of business courses. The requirements for this degree are to complete relevant area language coursework to the intermediate level or demonstrate proficiency to the intermediate college level in Spanish, Portuguese, French, or some other relevant area language; twenty-one semester hours in Latin American and Caribbean studies coursework; and fifteen semester hours in multinational business courses. The Latin American and Caribbean studies coursework is to be selected from the area specific courses. With this degree, there is no concepts and theories requirement. Students are also to select between two fifteen semester hour business coursework options listed below: an international marketing track or an international finance track. The prerequisites for both tracks include ECO 2013 and 2023, which may be taken as part of the student's liberal studies requirements. In addition, students opting for the international finance track must complete ACG 2021 as a prerequisite. Students should seek advising from the Latin American and Caribbean Studies program advisor in *211 Bellamy* about registering for business courses.

International Marketing/Management Track

MAN 3240 Organizational Behavior

MAN 3600 Multinational Business Operations (Prerequisites: ECO 2013, ECO 2023)

MAR 3023 Basic Marketing Concepts (Prerequisite: ECO 2023)

And six hours selected from:

MAN 4401 Management of Labor and Industrial Relations (Corequisite: MAN 3240)

MAN 4605 Cross-Cultural Management (Prerequisite: MAN 3240)

MAN 4680 Selected Topics in International Management (Prerequisites: ECO 2013, ECO 2023, MAN 3600)

MAN 4701 Business and Society (Prerequisite: MAN 3240 or MAN 3025)

MAR 4156 Multinational Marketing (Prerequisite: MAR 3023, MAN 3600)

Or another related course approved by the Latin American and Caribbean Studies program director

International Finance Track

FIN 3244 Financial Markets, Institutions, and International Finance Systems (Prerequisites: ACG 2021, ECO 2013)

FIN 3403 Financial Management of the Firm (Prerequisites: ACG 2021, ECO 2023)

MAN 3600 Multinational Business Operations (Prerequisites: ECO 2013, ECO 2023)

And six hours selected from:

FIN 4424 Problems in Financial Management (Prerequisites: CGS 2518, FIN 3244, FIN 3403)

FIN 4504 Investments (Prerequisites: CGS 2518, FIN 3244, FIN 3403)

FIN 4514 Security Analysis and Portfolio Management (Prerequisites: CGS 2518, FIN 4504)

FIN 4604 Multinational Financial Management (Prerequisites: CGS 2518, FIN 3244, FIN 3403)

GEB 4455 Perspectives on Free Enterprise (Prerequisites: FIN 3244, FIN 3403)

Or another related course approved by the Latin American and Caribbean Studies program director

Study Abroad

While it is not required, students majoring in Latin American and Caribbean studies are strongly encouraged to study abroad. The programs in Panama and Costa Rica offer relevant coursework. See *https://international.fsu.edu/* for more information on the various options available through Florida State International Programs

Students should consult with the Latin American and Caribbean Studies Director about any other study abroad programs they wish to pursue. Coursework taken in overseas locations must be approved in advance for credit toward the major.

Internship

The Latin American and Caribbean Studies program encourages students to take advantage of internships with an area focus. Information on possible placements can be found on the *International Studies* Canvas site. All internships must be approved the semester before the internship takes place. See the Latin American and Caribbean Studies program advisor in *211 Bellamy* for further information.

Honors in the Major

The Program in Latin American and Caribbean Studies offers honors in the major to encourage talented juniors and seniors to undertake independent and original work as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Second Majors

Majors in Latin American and Caribbean Studies may pursue a second major. When students pursue a second major, they may count six semester hours of coursework toward both majors.

Minor in Latin American and Caribbean Studies

Students pursuing a minor in the program must complete eighteen semester hours of Latin American and Caribbean studies coursework beyond the liberal studies requirement. In this case none of the broader comparative concepts and theories courses will count toward the eighteen semester hour minimum. Students may select freely from all area-specific courses. Modern languages courses numbered above 2999 may count toward the minor. Nine of the eighteen semester hours must be numbered above 2999. A maximum combined total of six semester hours in internship or directed individual study may apply to the minor.

Approved Courses

Note: Descriptions of specific courses can be found under the individual departments in which they are taught. In addition to the courses listed below, special topics courses may be approved by the program director in any particular term. These courses appear on the term course lists and are available at the *International Studies* Canvas Organization site, the advising office in *105 Bellamy*, and the program office in *211 Bellamy*.

Area Specific Courses (twenty-four credit hours)

Anthropology

ANT 4163 Mesoamerican Archaeology (3)
ANT 4166r Regional Civilizations in Ancient Mesoamerica (3)
ANT 4227r Topics in Pre-Colombian Art and Iconography (3)
ANT 4309 Conquest of the Americas (3)
ANT 4323 Peoples and Cultures of Mexico and Central America (3)
ANT 4337 Peoples and Cultures of Amazonia (3)

Art History

ARH 3612 Visual Cultures of the Americas (3)
ARH 4372 Spanish Colonial Art: The Hapsburg Period, 1492/1506–1700 (3)
ARH 4413 Spanish Colonial Art: The Bourbon Period, 1700–1821/1898 (3)
ARH 4675 The Art and Culture of the Maya (3)

Communication

ADV 3410 Hispanic Marketing Communication (3)

Economics

ECS 3022 Social Entrepreneurship and Economic Development (3)
ECS 4013 Economics of Development (3)

English

AML 3630 Latino/a Literature in English (3)

Geography

GEA 4405 Latin America (3)

History

LAH 1093 Latin America: A Cross Cultural History (3)
LAH 3411 History of Mexico, Central America and the Caribbean (3)
LAH 3456 History of Panama Since 1940 (3)
LAH 3500 History of South America (3)
LAH 3734 Latin American History Through Film (3)
LAH 4430 History of Mexico (3)
LAH 4470 History of the Caribbean (3)
LAH 4600 History of Brazil (3)
LAH 4723 Race and Class in Colonial Latin America (3)
LAH 4748 Social Revolutionary Movements in Latin America (3)

Hospitality

HFT 4205 Conversational Spanish for Hospitality Managers (3)

Latin American and Caribbean Studies

LAS 4905r Directed Individual Study (3)
LAS 4935r Honors Work (3)

Modern Languages and Linguistics

POR 3140 Portuguese for Advanced Students of Spanish I (3)
POR 3141 Portuguese for Advanced Students of Spanish II (3)
PRT 3391r Brazilian Literature and Film in Translation (3)
SPN 3300 Spanish Grammar and Composition (3)
SPN 3400 Spanish Reading and Conversation (3)
SPN 3350 Spanish for Heritage Speakers (3)
SPN 3440 Language and Culture in Business (3)
SPN 4036 Spanish Medical Interpreting (3)
SPN 4420 Advanced Spanish Composition and Translation (3)
SPN 4700 Introduction to Hispanic Linguistics (3)
SPN 4780 Spanish Phonetics (3)
SPN 4540r Regional Cultural Studies (3)
SPN 4740 Hispanic Sociolinguistics (3)
SPT 3130 Latin American Literature in Translation (3)
SPT 3391r Hispanic Cinema (3)
SPT 3503 Introduction to Hispanic Cultural Analysis (3)
SPW 3030 Approaching Hispanic Literature (3)
SPW 3132 Readings from Early Spanish America (3)
SPW 3493 Readings from Spanish America (3)
SPW 4140r The Poetics of Hispanic Love and Violence (3)
SPW 4150r Transatlantic Encounters (3)
SPW 4301r Hispanic Culture and Performance (3)
SPW 4491 Spanish American Women Writers (3)
SPW 4770 Caribbean Literature (3)

Music

MUH 4541 Music of Latin America I (3)
MUH 4542 Music of Latin America II (3)
MUH 4543 Music in the Caribbean (3)
MUN 2800r World Music Ensemble (0–1) (Caribbean Salsa Ensemble, Caribbean Steel Band Ensemble, Andean Music Ensemble)

Political Science

CPO 3303 Politics of Latin America (3)
INR 4244 Studies in International Politics: Latin America (3)

Religion

REL 3128r Topics in Religion in the Americas (3)

Sociology

SYD 2740 Sociology of Law and Hispanics (3)
SYD 4700 Race and Minority Group Relations (3)

Urban and Regional Planning

URP 4402 Sustainable Development Planning in the Americas (3)

Concept and Theory Courses (six credit hours)

Recommended Prerequisite Social Science-Concepts and Theories

CPO 2002 Introduction to Comparative Government and Politics (3)
ECO 2013 Principles of Macroeconomics (3)
ECO 2023 Principles of Microeconomics (3)
INR 2002 Introduction to International Relations (3)

Other Concepts and Theories

ANT 2410 Introduction to Cultural Anthropology (3)
ANT 3212 Peoples of the World (3)
ANT 3610 Language and Culture (3)
ANT 4241 Anthropology of Religion (3)
ARH 2000 Art, Architecture, and Artistic Vision (3)
ARH 3056 History and Criticism of Art I (3)
ARH 3057 History and Criticism of Art II (3)
CPO 3034 Politics of Developing Areas (3)
CPO 3703 Comparative Democratic Institutions (3) [with CPO 2002 as a prerequisite]
CPO 3743 States and Markets (3) [with CPO 2002 as a prerequisite]
ECO 3303 History of Economic Ideas (3)
ECO 4704 International Trade (3) [with ECO 2013, ECO 2023, and ECO 3101 as prerequisites]
ECO 4713 International Finance (3) [with ECO 2013 and ECO 2023 as prerequisites]
ECS 3003 Comparative Economic Systems (3) [with ECO 2013 and ECO 2023 as prerequisites]
GEA 1000 World Geography (3)
GEO 1400 Human Geography (3)
GEO 3502 Economic Geography (3)
GEO 4421 Cultural Geography (3)
GEO 4471 Political Geography (3)
HUM 3321 Multicultural Dimensions of Film and 20th-Century Culture (3)
INR 3004 Geography, History, and International Relations (3)
INR 3084 Terror and Politics (3) [with INR 2002 as prerequisite]
INR 3502 International Organizations (3) [with INR 2002 as prerequisite]
INR 3603 Theories of International Relations (3) [with INR 2002 as prerequisite]
INR 4011 Political Responses to Economic Globalization (3) [with INR 2002 as prerequisite]
INR 4075 International Human Rights (3) [with INR 2002 as prerequisite]
INR 4078 Confronting Human Rights Violations (3) [with INR 2002 as prerequisite]
INR 4083 International Conflict (3) [with INR 2002 as prerequisite]
INR 4102 American Foreign Policy (3) [with INR 2002 as prerequisite]
INR 4124 Statecraft (3) [with INR 2002 as prerequisite]
INR 4334 American Defense Policy (3) [with INR 2002 as prerequisite]
INR 4702 Political Economy of International Relations (3) [with INR 2002 as prerequisite]
MUH 2051 Music in World Cultures (3)
PAD 3003 Public Administration in American Society (3)
PAD 4301 Disaster Management Planning for Urban Poor Communities (3)
PAD 4374 Introduction to Terrorism: Preparedness and Response (3)
PAD 4375 Advanced Topics in Terrorism (3) [with PAD 4374 as a prerequisite]
PAD 4831 International Conflicts and Terrorism (3)
PAD 4833 International and Comparative Disaster Management (3)
PHI 2010 Introduction to Philosophy (3)
PHI 2630 Ethical Issues and Life Choices (3)
PHI 3670 Ethical Theory (3)
PHI 3700 Philosophy of Religion (3)
PHI 3800 Philosophy of the Arts (3)
PHI 3882 Philosophy in Literature (3)
PHM 2300 Introduction to Political Philosophy (3)
PHM 3331r Modern Political Thought (3)
PHM 3351 Philosophy of Human Rights (3)
PHM 3400 Philosophy of Law (3)
PHM 4340r Contemporary Political Thought (3)
PSY 2012 General Psychology (3)
PUP 3002 Introduction to Public Policy (3)
PUR 3002 Public Relations Techniques (3)
REL 1300 Introduction to World Religions (3)
REL 3142 Religion, the Self and Society (3)
REL 3170 Religious Ethics and Moral Problems (3)
SOP 3004 Social Psychology (3)
SYA 4010 Sociological Theory (3)
SYG 1000 Introductory Sociology (3)
SYG 2010 Social Problems (3)
SYO 3530 Social Classes and Inequality (3)
SYP 3000 Social Psychology of Groups (3)
SYP 3350 Collective Action and Social Movements (3)
SYP 3454 The Global Justice Movement (3)
SYP 3540 Sociology of Law (3)

Note: See course descriptions for required prerequisites.

Additional Latin American and Caribbean Studies Courses (Six credit hours)

Select from any approved Latin American and Caribbean studies course or an approved internship.

Definition of Prefix

LAS—Latin American Studies

Undergraduate Courses

LAS 4905r. Directed Individual Study (3). May be repeated to a maximum of six semester hours when content varies. Can be repeated within the same semester.

LAS 4935r. Honors Work (3). This course allows students to participate in supervised research and produce a paper describing the results of that work. Open to participants in the University and department honors program. May be repeated to a maximum of nine semester hours.

LAW
Undergraduate Programs

College of Law

Website: *http://www.law.fsu.edu*

Professors: Atkinson, Bayern, Cahill, Hsu, Johnson, Kahn, Landau, Logan, Markell, O'Connor, Ryan, Seidenfeld, Stern, Utset, Weidner, Williams, H. Wiseman, S. Wiseman; **Associate Professors:** Kesten, Lee, Linford, Spottswood, Ziegler; **Assistant Professors:** Eisenberg, Gentry, Morley, Scholz, Sevier, Swan; **Edward Ball Eminent Scholar:** Abbott; **Teaching Faculty:** Annino, Benham, Blenkhorn, Busch, Krieger, LaVia, Laroche, Matthews, Powell, Quintela, Scott, Taylor; **Professors Emeriti**: Banoff, Christie, Ehrhardt, Larson, Oeltjen, Powell, Schroeder, Southerland, Tesón, Van Doren, Vinson, Yetter

The College of Law provides students with a sophisticated legal education. The school encourages close working relationships among students and faculty; expert faculty members are accessible to students and teach them outside of the classroom as well as inside the classroom. Our faculty adds value by delivering a program of study that prepares students to enter the worlds of law, business, or government at the highest possible level. The College of Law inhabits a strong sense of community; students are proud of the law school and of one another.

For further details of degree requirements, plus a description of the college and its opportunities, refer to the College of Law Web site at *http://www.law.fsu.edu*.

Definition of Prefix

LAW—Law

Graduate Courses

LAW 5000. Contracts (1–4).
LAW 5100. Criminal Law (3).
LAW 5300. Civil Procedure (4).
LAW 5400. Property (4).
LAW 5501. Constitutional Law I (3).
LAW 5502. Constitutional Law II (3).
LAW 5522. Legislation and Regulation (1–3).
LAW 5700. Torts (1–4).
LAW 5792. Legal Writing and Research I (2).
LAW 5793. Legal Writing and Research II (2–3).
LAW 6002. Insurance Contracts (2–3).
LAW 6010. Sales and Leases (2–3).
LAW 6030. Secured Transactions (2–3).
LAW 6032. Commercial Paper (2).
LAW 6035. Commercial Law Survey (1–4).
LAW 6060. Corporations (4).
LAW 6062. Closely Held Business Organizations (2–3).
LAW 6073. Enterprise Risk Management: Business and Legal Perspectives (2–3).
LAW 6075. Workplace Privacy and Cybersecurity (2–3).
LAW 6076. HR Documentation and Employee Policies and Procedures (3).
LAW 6080. Insurance Law (2–3).
LAW 6083. Financial Privacy and Cybersecurity (2).
LAW 6092. Privacy and Cybersecurity Law (2).
LAW 6093. Consumer Compliance: Deposits, New Products, and Operations (2–3).
LAW 6094. Governance, Risk Management, and Compliance (2–3).
LAW 6095. Compliance Failures: Investigation, Reporting, and Remediation (2–3).
LAW 6260. Public International Law (3).
LAW 6261. International Business Transactions (3–4).
LAW 6302. Federal Jurisdiction (3).
LAW 6305. Remedies (3).
LAW 6310. Alternative Dispute Resolution (2–3).
LAW 6312. Mediation (3).
LAW 6313. Negotiation (1–4).
LAW 6315. Arbitration (3).
LAW 6330. Evidence (4).
LAW 6420. Land Transfer (2–3).
LAW 6426. Real Estate Finance (3).
LAW 6430. Gratuitous Transfers (3–4).
LAW 6460. Land Use Regulation (3).
LAW 6470. Environmental Law (3).
LAW 6480r. Natural Resources Law (2–3).
LAW 6516. Health Care Disability Law: Mental, Physical, and Age-Related (2–3).
LAW 6520. Administrative Law (1–4).
LAW 6524. Statutory Interpretation (3).
LAW 6529. Health Care Privacy and Cybersecurity (2–3).
LAW 6530. Local Government Law (3).
LAW 6541. Employee Benefits Law (2–3).
LAW 6545. Employment Law Survey (3–4).
LAW 6546. HR and Employment Law Research (2–3).
LAW 6548. Employment Law for HR Compliance (2–3).
LAW 6550. Antitrust Law (2–3).
LAW 6555. Law and Economics (3).
LAW 6566. Financial Regulation Research (2–3).
LAW 6572r. Copyright Law (2–3).
LAW 6593. Health Care Regulation Research (2–3).
LAW 6600r. Taxation I (3–4).
LAW 6610. Corporate Tax (2–4).
LAW 6618. Taxation of Business Entities (3).
LAW 6620. Estate and Gift Tax (3).
LAW 6702r. Products Liability (2–3).
LAW 6705. Workers' Compensation (2–3).
LAW 6720r. Health Law and Policy (2–3).
LAW 6721. Health Care Payer-Provider Relationships (2–3).
LAW 6725. Medical Malpractice (2–3).
LAW 6729. Medicare, Medicaid, and Managed Care (2).
LAW 6750. Patent Laws (2–3).
LAW 6766 Financial Statements Interpretations (2–3).
LAW 6775. Workers' Compensation Law and Civil Liability (2).
LAW 6786. Introduction to Legal Studies and Research (1–4).
LAW 6794. Writing Skills (3).
LAW 6852. Healthcare Fraud and Abuse (2–3).
LAW 6856. Regulatory Compliance (1–4)
LAW 6863. Public Health Law (2–3).
LAW 6866. Bank Secrecy Act/Anti-Money Laundering Compliance (4).
LAW 6867. Consumer Compliance: Lending (2–3).
LAW 6870. Advanced Legal Research for Legal Risk Management and HR Compliance (2).
LAW 6871. Advanced Legal Research for Healthcare Regulation (2).
LAW 6872. Risk Management for Financial Compliance (2–3).
LAW 6873. Employment Discrimination Law (2–3).
LAW 6874. Business Organizations (2–3).
LAW 6875. Broker-Dealer Regulation (2–3).
LAW 6876. Conducting Workplace Investigations (2–3).
LAW 6877. Drug Regulation and Compliance (2–3).
LAW 6878. Economic Sanctions (2–3).
LAW 6879. Vendors and Other Third Parties Risk Management (2–3).
LAW 6991. Insurance and Risk Transfers (2).
LAW 6993. Advanced Legal Research – Financial Regulation (2).
LAW 6998. Consumer Protection Law (2).
LAW 7040. Consumer Law (2–3).
LAW 7050. Bankruptcy (3).
LAW 7064. Corporate Finance (2–3).
LAW 7111. Criminal Procedure - Police (2–3).
LAW 7113. Criminal Procedure - Adjudication (2–3).
LAW 7116. Florida Criminal Procedure: Pre-Trial (2–3).
LAW 7210. Jurisprudence (1–4).
LAW 7227. American Legal History I (2–3).

LAW 7228. American Legal History II (2–3).
LAW 7229. American Legal History III (2–3).
LAW 7233. Cyber Law (2–3).
LAW 7246. Lawyers and Literature (2–3).
LAW 7250. Comparative Law (2–3).
LAW 7262. International Trade (2–3).
LAW 7264. Immigration Law (2–3).
LAW 7266. International Litigation (2).
LAW 7268. International Environmental Law (2–3).
LAW 7303. Florida Civil Practice (2).
LAW 7307. Advanced Civil Procedure (2–3).
LAW 7340. Conflict of Laws (3).
LAW 7360. Trial Practice (2). (S/U grade only.)
LAW 7370. Supreme Court Roleplay (2–3).
LAW 7431. Estate Planning (2).
LAW 7475. Ocean and Coastal Law (2–3).
LAW 7476. Law of the Sea (2–3).
LAW 7477. Environmental Issues in Business Transactions (2–3).
LAW 7481. Energy Law and Policy (2–3).
LAW 7482. Endangered Species Protection Law (2–3).
LAW 7503. State Constitutional Law (3).
LAW 7510r. Civil Rights (2–3).
LAW 7511r. First Amendment (2–3).
LAW 7512. Church and State (2–3).
LAW 7521. Florida Administrative Practice (2–3).
LAW 7549. Employment Discrimination (3).
LAW 7560. Securities Regulation (3).
LAW 7565. Securities Litigation Seminar (2).
LAW 7574. International Aspects of Intellectual Property (2–3).
LAW 7575. Entertainment Law (2–3).
LAW 7613. Taxation of Business Entities II (2–3).
LAW 7660. Tax Policy (2).
LAW 7680r. International Tax (2–3).
LAW 7704r. Mass Tort Litigation (2–3).
LAW 7710. Family Law (3).
LAW 7716. Florida Dissolution of Marriage (2–3).
LAW 7722. Bioethics and the Law (3).
LAW 7730. Admiralty Law (2–3).
LAW 7750. Professional Responsibility (3).
LAW 7760. Accounting and the Law (2–3).
LAW 7840. Sports Law (2).
LAW 7910r. Directed Individual Study (1–5). (S/U grade only.)
LAW 7915r. Legislative Policy Studies (1–3).
LAW 7930r. College of Law Special Topics (1–4).
LAW 7939r. Special Topics (2–3). (S/U grade only.)
LAW 7940r. Clinical Orientation (1–2). (S/U grade only.)
LAW 7949r. Clinical Law Programs (1–15). (S/U grade only.)
LAW 7950r. Law Review (1–5). (S/U grade only.)
LAW 7951r. Moot Court Competition (1–3). (S/U grade only.)

Undergraduate Program in LAW AND SOCIETY

College of Social Sciences and Public Policy

Web Page: *https://coss.fsu.edu/iss/node/9*
Director/Associate Dean: Robert E. Crew, Jr.; **Associate Director:** Lisa Turner de Vera

The Program in Law and Society offers an interdisciplinary study of the interaction of law and legal institutions and contemporary society. It is designed to provide an appreciation and recognition of the impact of law and legal institutions on society and the ways law is shaped by the values, behavior, and organization of social, economic, and political systems. Courses from the Departments of Economics, Geography, Political Science, Urban and Regional Planning, and Sociology, as well as the Askew School of Public Administration and Policy, are included. Students may minor in law and society or select a major concentration in law and society through the interdisciplinary social science major. The Program in Law and Society is appropriate for a variety of educational and occupational goals because it provides an introduction to the links between law and other human activity and serves as a broad liberal education in the social sciences. Although prelaw students may enroll in law and society, the program is not a prelaw or pre-professional program, and a minor or major concentration in law and society is not offered as preparation for law school.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in the law and society concentration in the Interdisciplinary Program in Social Science satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

Requirements for a Minor in Law and Society

A minor in law and society shall consist of at least five courses from the designated curriculum, including law and society (POS 3691), and either sociology of law (SYP 3540) or economics and the law (ECP 3451), as two of the five courses. The remaining three may be selected from the list of approved courses below.

Requirements for a Major

A primary concentration in law and society is available in the social science interdisciplinary major. It consists of introduction to law and society (POS 3691), either economics and the law (ECP 3451) or sociology of law (SYP 3540), and four other courses from the approved list of courses. To complete the social science major with a concentration in law and society, students shall be required to select two twelve semester hour secondary concentrations from two social science departments. One of the secondary concentrations must be in economics, political science, or sociology, and students must select these twelve semester hours from a department's courses included in the law and society curriculum. Students interested in the interdisciplinary social science major should refer to that departmental entry of this *General Bulletin*.

Approved Courses

The following courses have been approved for the law and society program. In addition to the required courses, students shall select courses for the law and society minor and the law and society concentration in the social science major from this list. See the "Interdisciplinary Program in Social Science" chapter of this *General Bulletin* for course prerequisites. Descriptions of the following courses can be found under the individual departments in which they are taught.

Economics

ECO 4504 Public Sector Economics (3)
ECO 4554 Economics of State and Local Government (3)
ECP 3302 Economics of Natural Resources, Energy, and the Environment (3)
ECP 3403 Business Organization and Market Structure (3)
ECP 3451 Economics and the Law (3)
ECP 4413 Government Regulation of Business (3)

Geography

GEO 4340 Living in a Hazardous Environment (3)
GEO 4372 Natural Resources Assessment and Analysis (3)

Political Science

CPO 3123 Comparative Government and Politics: Great Britain (3)
POS 3122 State Politics (3)
POS 3691 Law and Society (3)
POS 4284 Courts, Law, and Politics (3)
POS 4413 The American Presidency (3)
POS 4424 Legislative Systems (3)
POS 4606 The Supreme Court in American Politics (3)
POS 4624 The Supreme Court, Civil Liberties, and Civil Rights (3)
PHM 3331 Modern Political Thought (3)
PHM 4340 Contemporary Political Thought (3)
PUP 3002 Introduction to Public Policy (3)

Public Administration and Policy

PAD 4603 Administrative Law (3)

Sociology

SYD 4700 Race and Minority Group Relations (3)
SYG 2010 Social Problems (3)
SYO 3100 Families and Social Change (3)
SYO 3530 Social Classes and Inequality (3)
SYO 4300 Sociology of Politics (3)
SYP 3540 Sociology of Law (3)
SYP 4570 Deviance and Social Control (3)

Urban and Regional Planning

URP 4022 Collective Decision Making (3)

Other Courses

PHM 3400 Philosophy of Law (3)
SOP 3751 Psychology and the Law (3)

Students may consult with Dr. Robert E. Crew, Director, or Dr. Lisa Turner de Vera, Associate Director, Interdisciplinary Program in Social Science, for additional information.

LEARNING AND COGNITION:
see Educational Psychology and Learning Systems

Undergraduate Interdepartmental Minor in LINGUISTICS

Website: *https://academic-guide.fsu.edu/minors#linguistics*
Linguistics Faculty: Brandl, Gonzalez, Lababidi, Leeser, Muntendam, Prantil, Qian, Reglero, Romanchuk, Soldat-Jaffe, Sunderman (Modern Languages and Linguistics)

Linguistics is concerned with the study of the nature of language. There are linguistic applications in the areas of anthropology, sociology, psychology, mathematics, computer sciences, philosophy, and audiology and speech pathology.

Undergraduate and graduate students who wish to minor in linguistics should contact the coordinator and minor advisor Dr. Lara Reglero to help them in designing courses of study that fill their personal and professional needs.

Requirements for a Minor in Linguistics

Undergraduate

Undergraduate students in linguistics must take at least twelve semester hours from the linguistics courses listed below; two of these must be core courses.

Core Courses

LIN 3041, LIN 4030, LIN 4040, LIN 4201, LIN 4512, LIN 4905, LIN 4930

Other Courses

ANT 4640, LIN 3108, EXP 4640, PHI 3220, *RUS 4840, *SPN 4700, *SPN 4840, IDS 2291

Note: Additional courses may count with approval of the linguistics curriculum committee.

***These** courses will NOT count toward both a minor in Linguistics and a major in another language.

Graduate

Graduate students in linguistics must take at least fifteen semester hours from the linguistics courses listed below; two of these must be core courses.

Core Courses

LIN 5035, LIN 5045, LIN 5510

Other Courses

LIN 5908r, LIN 5932, SPN 5776, SPN 5785, SPN 5795, SPN 5805, SPN 5845

Note: Additional courses may count with approval of the linguistics curriculum committee.

LINGUISTICS:
see also Modern Languages and Linguistics; Anthropology; Communication Disorders; English; and Psychology

Undergraduate Minor in LONDON STUDY CENTER INTERDISCIPLINARY STUDIES

College of Arts and Sciences

Web Page: *https://international.fsu.edu/Program/England/BroadCurriculum.aspx*

Coordinator: James E. Pitts (International Programs)

The London Study Center Interdisciplinary minor is concerned with the culture of Great Britain from ancient times to the present. The minor is built around the student's program of studies at the Florida State University London Study Center, allowing the student to study British culture from the perspective of various disciplines and to pursue the minor before, during, and after the student attends the London Center. The minor gives greater focus to and enhances the quality of the student's program of studies in Britain. The sojourn in London is the essential element in the minor, providing direct involvement in contemporary British civilization as well as exposure to Britain's historical and cultural artifacts.

Requirements for a Minor in London Study Center Interdisciplinary Studies

The interdisciplinary minor requires the completion of fifteen semester hours in courses approved by the London Study Center Minor Coordinating Committee. **At least nine semester hours of approved courses must be taken while the student is in residence at the London Study Center**. A maximum of nine semester hours may be counted in any single academic discipline. A minimum grade of "C–" must be earned for all courses taken for the minor. In addition, a minimum grade point average of 2.0 must be maintained in all courses counted toward the minor. Students who intend to minor in London Study Center Interdisciplinary Studies should declare this intention with International Programs at the end of the semester in London. Contact Sarah Lovins Bacani at*slovins@fsu.edu* for further information.

Core Courses

These courses will be counted in the minor whether they are taken on the Tallahassee campus or in London. Descriptions of these courses can be found under the individual departments in which they are taught.

CPO 3123 Comparative Government and Politics: Great Britain (3)
ECO 3303 History of Economic Ideas (3)
ENL 2022 British Authors: Early Romantics to the Present (3)
ENL 3184 British Drama: History, Text and Criticism (3)
ENL 3210 Medieval Literature in Translation (3)
ENL 3334 Introduction to Shakespeare (3)
ENL 4112 The 18th-Century British Novel (3)
ENL 4122 The 19th-Century British Novel (3)
ENL 4132 The Modern British Novel (3)
ENL 4161 Renaissance Drama (3)
ENL 4171 Restoration and 18th-Century Drama (3)
ENL 4218 Middle English Romance (3)
ENL 4220 Renaissance Poetry and Prose (3)
ENL 4230 Restoration and 18th-Century English Literature (3)
ENL 4240 British Romantic Literature (3)
ENL 4251 Victorian British Literature (3)
ENL 4273 Modern British Literature (3)
ENL 4311 Chaucer (3)
ENL 4333 Shakespeare (3)
ENL 4341 Milton (3)
EUH 3501 The Making of Modern England (3)
EUH 3530 England, the Empire, and the Commonwealth (3)
EUH 4502 England Since 1870 (3)
EUH 4512 Stuart England (3)
EUH 4520 England, 1714–1870 (3)
EUH 4544 Sex and Class in England, 1750–1914 (3)
IDS 2371 Music and Culture in London (3)
IDS 3336 "Great" Britain? Geography, Imperialism, Industry, and Culture (3)
IDS 3435 "Please Please Me": Anglo-American Youth Culture from the 1950's to the Present (3)
INR 3932 Special Topics in International Affairs [Global Foundations] (3)
GEA 4520 Britain and Ireland (3)
LIT 4184 Irish Literature (3)

Related Courses

These courses may be counted in the minor only when they are taken at the London Study Center and the syllabus shows that at least fifty percent of material presented is relevant to the minor.

ANT 2410 Introduction to Cultural Anthropology (3)
ANT 2511 Introduction to Physical Anthropology and Prehistory (3)
ARH 2000 Art, Architecture, and Artistic Vision (3)
ARH 3056 History and Criticism of Art I (3)
ARH 3057 History and Criticism of Art II (3)
ARH 4353 Northern Baroque Art (3)
BSC 1100 Natural History, Biodiversity, and the Growth of Evolutionary Thought (3)
CLA 2010 Introduction to Greek and Roman Civilization (3)
CLA 3502 Women, Children, and Slaves in Ancient Rome: The Roman Family (3)
ECO 2023 Principles of Microeconomics (3)
ENC 3310r Article and Essay Technique (3)
ENC 4311r Advanced Article and Essay Workshop (3)
ENG 3310 Film Genres (3)
ENG 3931r Topics in English (1–3)
ENG 4932r Studies in English (1–3)
EUH 2000 Ancient and Medieval Civilizations (3)
FIL 2001 Introduction to Film (3)
FOW 3240 Literature and Sexuality (3)
GEA 1000 World Geography (3)
GEO 1330 Environmental Science (3)
GEO 1400 Human Geography (3)
HUM 2742 Walking in London (3)
HUM 3321 Multicultural Dimensions of Film and 20th-Century Culture (3)
HUM 4931r Topics in the Civilization of Britain or Italy (3)
IDS 2060 Global Engagement (1)
IND 4131r History of Interiors II (3)
INR 2002 Introduction to International Relations (3)
INR 3502 International Organization (3)
INR 3603 Theories of International Relations (3)
ISS 4931r Special Topics (1–3)
LIT 2081 Contemporary Literature (3)
LIT 2230 Introduction to Global Literature in English (3)
LIT 3043 Modern Drama (3)
LIT 3383 Women in Literature (3)
LIT 4033 Modern Poetry (3)
MUH 2011 Introduction to Music History—Music Appreciation: 18th and 19th Centuries (3)
MUH 2012 Music in Western Culture, 19th and 20th Centuries (3)
MUH 2019 Modern Popular Music (3)
PGY 2100C Photo for Non-Art Majors (3)
REL 1300 Introduction to World Religions (3)
REL 3145 Gender and Religion (3)
SYG 2010 Social Problems (3)
THE 2000 Introduction to Theatre (3)
THE 3061 Introduction to Theatre in London (3)
THE 3931r Special Topics (3)
THE 4111 European Theatre History II (3)

All other courses at the London Study Center may be counted toward the minor if a course syllabus shows that at least fifty percent of the material presented is relevant to the minor, and provided the London Center Minor Coordinating Committee approves their inclusion in the minor. In addition, special topics courses offered on the Florida State University campus on a one-

time basis may be counted if the Coordinating Committee approves them. To have such courses considered, petition the International Programs Coordinating Committee, *University Center A5500, Tallahassee, FL 32306-2420*.

Courses used toward the London Study Center minor cannot be used to meet any other University requirement (general education, major, graduation, etc.)

BUSINESS LAW:
see Risk Management/Insurance, Real Estate, and Legal Studies

CELL BIOLOGY:
see Biological Science

Undergraduate Department of MANAGEMENT

College of Business

Website: *https://business.fsu.edu/departments/management/*
Chair: David R. King; **Professors:** Douglas, Ferris, Fiorito, Hochwarter, Lamont, Perrewé, Stepina, Van Iddekinge; **Associate Professor:** Daniels, Holmes, King, Maslach, Wang; **Assistant Professors:** Paustian-Underdahl, Rousseau; **Senior Lecturers:** Blass, Diez-Arguelles, Trammell; **Associate Lecturers:** Brooks, Shubrick; **Assistant Lecturers:** Harding, Hayes; **Bank of America Professor:** Van Iddekinge; **Dean's Emerging Scholars:** Holmes, Maslach, Wang; **Francis Eppes Professor of Management:** Ferris; **Haywood & Betty Taylor Eminent Scholar in Business Administration:** Perrewé; **J. Frank Dame Professor of Management:** Fiorito; **Jim Moran Senior Lecturer and Executive Director, Jim Moran Institute**: Blass; **Jim Moran Professor of Business Administration:** Hochwarter; **Jim Moran Eminent Scholar of Business Administration:** Lamont; **Higdon Professor of Management:** King; **Professors Emeriti:** Martinko, Voich, Wilkens

The management curricula provide students with an understanding of the nature of managerial work, including both the art and the science of managing. The curricula emphasize the management of human resources, managerial problem solving, and decision making. Within the management degree program, students choose to major in general management or human resource management consistent with their specific interests. The overall objective of these curricula is to prepare students for entry-level positions in small and large organizations, leading to line or staff management careers in either the public or private sector. Many graduates enter jobs as managerial associates, sales associates, or human resource management professionals. The department also offers a combined BS-HRM//MBA pathway that allows highly qualified undergraduate students in the human resource management major the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MBA degrees. A detailed description of the MBA program can be found in the Graduate Bulletin.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in general management and human resources management satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 (state mandated business prerequisite requirement) or CGS 2518.

Note: CGS 2518 with a "C–" or better is a graduation requirement for students in one of the Management majors.

Required Risk in Business and Society Course

All undergraduates at Florida State University intending to enter a business major should complete RMI 2302, Risk in Business and Society, with a "C–" or better by the end of their sophomore year, but no later than their fifth mapping term.

Required Professional Development Course

All undergraduates entering Florida State University in Fall 2019 and later must complete a one-credit course in professional development, GEB 1030, with a "C–" or better by the end of their fifth mapping term. However, students are encouraged to complete the course by the end of their sophomore year to take full advantage of the material.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X022, or ACG X001 and ACG X011

2. ACG X071 or ACG X301
3. CGS X100 (or demonstrated competency) or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
4. ECO X013
5. ECO X023
6. MAC X233 or MAC X230
7. STA X023 or STA X122 or QMB X100

Requirements for a Major in Management

All students must complete:

1. The University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*
2. The state of Florida common prerequisites for general management majors
3. The general business core requirements for general management majors
4. The general business breadth requirements for general management majors
5. The major area requirements for general management majors

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a general management major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All management majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3)
FIN 3403 Financial Management of the Firm (3)
GEB 3213 Business Communications (3)
ISM 3541 Introduction to Business Analytics (3)
MAN 3240 Organizational Behavior (3)
MAR 3023 Basic Marketing Concepts (3)

General Business Breadth Requirements

All management majors must complete three courses as follows. Each course selected must be completed with a grade of "C–" or better.

MAN 4720 Strategic Management and Business Policy (3)

Plus two electives from the following list of courses:

FIN 3244 Financial Markets, Institutions, and International Finance Systems (3)
ISM 3003 Foundations of Management Information Systems (3)
MAN 3600 Multinational Business Operations (3)
MAR 3231 Retailing Management (3)
MAR 3400 Professional Selling (3)
QMB 3200 Quantitative Methods for Business Decisions (3)
REE 3043 Real Estate (3)
RMI 3011 Risk Management/Insurance (3)

Capstone Course

All management majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C–" or better.

Major Area Requirements

All management majors must complete six courses as listed below. A grade of "C–" or better must be earned in each course used to satisfy the general management major area requirements.

MAN 4301 Human Resource Management (3)
MAN 4701 Business and Society (3)

Plus four electives from the following list of courses:

MAN 4143 Contemporary Leadership Challenges (3)
MAN 4201 Organizational Analysis and Change (3)
MAN 4330 Compensation (3)
MAN 4401 Management of Labor and Industrial Relations (3)
MAN 4441 Negotiation and Conflict Management (3)
MAN 4605 Cross Cultural Management (3)
MAN 4752 Competitive Dynamics (3)
MAN 4930r Special Studies in Business (3)
MAN 4941 Field Study in Management (3)

Requirements for a Major in Human Resource Management

All students must complete:

1. The University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*
2. The state of Florida common prerequisites for human resource management majors
3. The general business core requirements for human resource management majors
4. The general business breadth requirements for human resource management majors; and
5. The major area requirements for human resource management majors.

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a human resource management major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All human resource management majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3)
FIN 3403 Financial Management of the Firm (3)
GEB 3213 Business Communications (3)
ISM 3541 Introduction to Business Analytics (3)
MAN 3240 Organizational Behavior (3)
MAR 3023 Basic Marketing Concepts (3)

General Business Breadth Requirements

All human resource management majors must complete three courses as follows. Each course selected must be completed with a grade of "C–" or better.

MAN 4720 Strategic Management and Business Policy (3)

Plus two electives from the following list of courses:

FIN 3244 Financial Markets, Institutions, and International Finance Systems (3)
ISM 3003 Foundations of Management Information Systems (3)
MAN 3600 Multinational Business Operations (3)
MAR 3231 Retailing Management (3)
MAR 3400 Professional Selling (3)
QMB 3200 Quantitative Methods for Business Decisions (3)
REE 3043 Real Estate (3)
RMI 3011 Risk Management/Insurance (3)

Capstone Course

All human resource management majors must complete the capstone class in Competitive Dynamics (MAN 4752) with a grade of "C–" or better.

Major Area Requirements

All human resource management majors must complete five courses as listed below. A grade of "C–" or better must be earned in each course used to satisfy the human resource management major area requirements.

MAN 4301 Human Resource Management (3)
MAN 4310 Disability Inclusion in the Workforce (3)
MAN 4320 Staffing (3)

Plus two electives from the following list of courses:

MAN 4201 Organizational Analysis and Change (3)
MAN 4330 Compensation (3)
MAN 4350 Training and Development (3)
MAN 4390 Current Issues in Human Resource Management (3)
MAN 4401 Management of Labor and Industrial Relations (3)

MAN 4441 Negotiation and Conflict Management (3)
MAN 4605 Cross Cultural Management (3)
MAN 4941 Field Study in Management (3)
RMI 4135 Employee Benefit Plans (3)

Honors in the Major

The Department of Management offers honors in the major to encourage talented students to undertake independent and original research as part of the undergraduate experience. For requirements and other information see the "University Honors Office and Honor Societies" chapter of this *General Bulletin.*

Definition of Prefixes

GEB—General Business
IDS—Interdisciplinary Studies
MAN—Management

Undergraduate Courses

GEB 1030. Development for Business Careers (1). This course is designed for sophomore students who intend to major in business. Career options in various business disciplines are described. Appropriate personal characteristics and skills required for a successful business career are discussed. This course cultivates critical thinking as it relates to these and other academic and career development topics.

GEB 3213. Business Communications (3). Prerequisite: Upper-division business major. This course is designed to help business students develop the writing, verbal, and interpersonal skills that are necessary for a successful business career.

GEB 4930r. Special Topics in Business (1–3). The content of this course varies to provide an opportunity to study current issues in business and topics not covered in other courses. Prerequisites may vary as content varies; contact the department for further information.

GEB 4941r. Business Internship (0–6). (S/U grade only.) Prerequisite: Instructor permission. This business internship is designed for College of Business students who desire to gain real-world experience in the accounting field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor, and the internship director. May be repeated to a maximum of six semester hours.

IDS 2129. When Culture and Business Collide: Communication in an International Context (3). In this course, students engage in critical and creative thinking about contemporary problems and solutions in intercultural business communication. Students also grapple with these issues in both an international and domestic context.

IDS 2165. Intercultural Communication, Business, and Sustainability: Writing for "Green" Everywhere (3). This course examines the intersections between communication, business, intercultural business, sustainability, social responsibility, ethics, and professional leadership. One facet of the course will explore the communication issues and challenges that managers of businesses and other organizations face. Additionally, the course will discuss sustainability issues through the lens of Permaculture and Transition Town philosophies, tackling topics such as "peak oil," permaculture design, local and alternative currencies, and the "triple bottom line" ideal; these topics will also be examined via a global perspective.

MAN 3025. Concepts of Management (3). This course introduces the nature and process of management, with emphasis upon management of physical and human resources. (Credit not allowed for business majors.)

MAN 3240. Organizational Behavior (3). This course applies concepts from psychology and social psychology to organizational problems that managers face.

MAN 3949r. Experiential Learning (0). (S/U grade only.) Prerequisite: Instructor permission. This non-credit, experiential learning course offers students an opportunity to gain "real world" on-the-job work experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

MAN 4143. Contemporary Leadership Challenges (3). Prerequisite: MAN 3240. This course provides broad exposure to the theories and practice of effective leadership and supervision in today's business and explores contemporary leadership challenges from a practical point of view, with opportunities to develop and practice effective leadership skills.

MAN 4201. Organizational Analysis and Change (3). Prerequisite: MAN 3240. In this course students explore how to be innovators and leaders within an organizational context. Students are exposed to a wide collection of theories and ideas about how individuals can be intrapreneurial within an existing organizational culture.

MAN 4301. Human Resource Management (3). Prerequisite: MAN 3240. This course is a survey of the human resource management function in organizations. Topics include: selection, recruiting, training, compensation, and performance appraisal.

MAN 4310. Disability Inclusion in the Workforce (3). Prerequisites: MAN 3240 and MAN 4301. This course emphasizes HRM theory and research methods, and the application of those principles and methods to solving "people issues" by examining public policy and current events within the workforce. This course specifically examines the challenges that individuals with disabilities face entering, assimilating, and excelling within the workforce.

MAN 4320. Staffing (3). Prerequisites: MAN 3240 and MAN 4301. This course is a study of the design and operation of systems for employee recruitment and selection, including current practice and issues.

MAN 4330. Compensation (3). Prerequisites: MAN 3240 and MAN 4301. This course is a study of the methods and implications of making wage and salary decisions for recruiting and retaining employees.

MAN 4350. Training and Development (3). Prerequisites: MAN 3240 and MAN 4301. This course is a study of the various forms of training and development and their implementation both on and off the job.

MAN 4390. Current Issues in Human Resource Management (3). Prerequisites: MAN 3240 and MAN 4301. This course is a seminar that probes current topics in human resource management in depth. Emphasis is on the impact of recent legal and societal developments on human resource management practice.

MAN 4401. Management of Labor and Industrial Relations (3). Corequisite: MAN 3240. This course covers a managerial perspective of labor and manpower concepts and issues in industrial and postindustrial society and work organizations.

MAN 4441. Negotiation and Conflict Management (3). Prerequisite: MAN 3240. This course focuses on negotiation and conflict management in business and other organizational settings. The emphasis is on gaining an understanding of the negotiation process and strategies and developing effective negotiation and conflict management skills.

MAN 4605. Cross-Cultural Management (3). Prerequisite: MAN 3240. This course studies the unique issues of managing in non-native culture. Discusses management situations where members of more than one cultural group are included, along with strategies for maximum effectiveness in such situations.

MAN 4680r. Selected Topics in International Management (3). Prerequisites: ECO 2013, ECO 2023, and MAN 3600. This course covers selected topics in international management which vary depending upon the instructor for the course. Topics such as cultural influences on management, international personnel management, and other related management topics are discussed. May be repeated to a maximum of six semester hours.

MAN 4701. Business and Society (3). Prerequisite: MAN 3240 or MAN 3025. This course is an examination of current and future issues in business and society with emphasis on the social responsibility of business and future challenges for business in a pluralistic society.

MAN 4720. Strategic Management and Business Policy (3). Prerequisite: FIN 3403, MAN 3240, and MAR 3023. This course is a case analysis of business and management problems for the formulation of managerial strategies and policies.

MAN 4752. Competitive Dynamics (3). Prerequisites: MAN 3240, MAR 3023, ISM 3541, FIN 3403, and BUL 3310. The primary focus of the course is on using strategy to manage companies effectively in competitive settings that are constantly changing. A comprehensive, but adaptive approach to competitive dynamics is emphasized. A computer simulation is used extensively.

MAN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine semester hours.

MAN 4930r. Special Studies in Business (1–3). Prerequisite: Instructor permission. May be repeated to a maximum of nine semester hours as topics vary.

MAN 4941. Field Study in Management (1–3). (S/U grade only.) Prerequisite: Instructor permission. This course provides students with on-the-job experience in major area.

MAN 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine semester hours. Six semester hours of thesis are required to complete honors in the major.

Graduate Courses

GEB 5907r. Special Studies in Business (1–3).
GEB 5944r. Graduate Internship (1–6). (S/U grade only.)
GEB 6931r. Doctoral Issues in Professional Development (1–3). (S/U grade only.)
MAN 5037. Fundamentals of Management (3).
MAN 5245. Organizational Behavior (3).
MAN 5305. Personnel/Human Resource Management (3).
MAN 5331. Compensation Management (3).
MAN 5351. Training and Development (3).
MAN 5365. Staffing (3).
MAN 5721. Strategy and Business Policy (1–4).
MAN 5905r. Directed Individual Study (1–3). (S/U grade only.)
MAN 5907r. Special Studies in Management (1–3).
MAN 5911r. Supervised Research (1–3). (S/U grade only.)
MAN 5935r. Special Topics in Management (1–3).
MAN 6235r. Doctoral Seminar in Organizational Theory (1–3).
MAN 6275r. Organization Behavior I: Literature (3).
MAN 6306. Doctoral Seminar in Human Resource Management (3).
MAN 6795r. Doctoral Seminar in Strategic Management: Selected Topics (3).
MAN 6911r. Supervised Research (1–3). (S/U grade only.)

MAN 6917. Doctoral Seminar in Management Research: Research Design (3).
MAN 6931. Strategy Microfoundations (3).
MAN 6932. Doctoral Seminar in Strategic Management I: Literature (3).
MAN 6933r. Doctoral Seminar in Organizational Behavior: Special Topics (3).
MAN 6934. Doctoral Seminar in Management Research: Data Analysis (3).
MAN 6941r. Supervised Teaching (1–3). (S/U grade only.)
MAN 6979. Doctoral Seminar in Research (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of MARKETING

College of Business

Website: *https://business.fsu.edu/departments/marketing/*
Chair: Michael Brady; **Professors:** Brady, Cronin, Hartline, Hofacker, Kim, Lee, Scott; **Associate Professors:** Bolander, Bonney, Mende; **Assistant Professors:** Fajardo, Harmeling, Thomas; **Senior Lecturers in Marketing:** Dever, Kinney, Pallentino; **Associate in Marketing:** Hopkins; **Assistants in Marketing:** Ferguson, Jackson, Viosca; **John R. Kerr Research Chair in Marketing:** Cronin; **Bob Sasser Professor of Marketing:** Brady; **Carl DeSantis Professors of Business Administration:** Bolander, Hofacker; **Charles A. Bruning Professor of Business Administration:** Hartline; **Madeline Duncan Rolland Associate Professor of Business:** Scott

The marketing curriculum prepares students for successful careers in both the public and private sectors. Courses are oriented toward: (1) problem solving and management decision making; (2) providing knowledge of the tools, types of organization, and institutions utilized in performing marketing activities; and (3) developing the ability to plan and implement marketing policy, strategy, and procedures. Consistent with their interests and career goals, students may choose to major in either marketing, professional sales, or retail management within the marketing degree program.

The curriculum includes qualitative and quantitative elements with an emphasis on the successful deployment of marketing strategies, especially among the service sector enterprises that dominate our state and national economies. The curriculum is designed to impart knowledge and competence in marketing that will enable graduates to (1) progress well in the early stages of their careers; (2) analyze, plan, organize, coordinate, and control marketing activities; (3) think analytically and respond creatively; (4) communicate effectively; and (5) gain broad perspectives essential to the attainment of top management responsibilities. The department also offers a combined BS/MBA pathway that allows highly qualified undergraduate students in the marketing major the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MBA degrees. A detailed description of the MBA program can be found in the Graduate Bulletin.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in marketing, retail management, and professional sales satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 (state mandated business prerequisite requirement) or CGS 2518.

Note: CGS 2518 with a "C–" or better is a graduation requirement for students in one of the Marketing majors.

Required Risk in Business and Society Course

All undergraduates at Florida State University intending to enter a business major should complete RMI 2302, Risk in Business and Society, with a "C–" or better by the end of their sophomore year, but no later than their fifth mapping term.

Required Professional Development Course

All undergraduates entering Florida State University in Fall 2019 and later must complete a one-credit course in professional development, GEB 1030, with a "C–" or better by the end of their fifth mapping term. However, students are encouraged to complete the course by the end of their sophomore year to take full advantage of the material.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X022, or ACG X001 and ACG X011
2. ACG X071 or ACG X301
3. CGS X100 (or demonstrated competency) or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
4. ECO X013
5. ECO X023
6. MAC X233 or MAC X230
7. STA X023 or STA X122 or QMB X100

Requirements for a Major in Marketing

All students must complete:

1. the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*;
2. the state of Florida common prerequisites for marketing majors;
3. the general business core requirements for marketing majors;
4. the general business breadth requirements for marketing majors;
5. the major area requirements for marketing majors.

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a major in marketing, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All marketing majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3).
FIN 3403 Financial Management of the Firm (3).
GEB 3213 Business Communications (3).
ISM 3541 Introduction to Business Analytics (3).
MAN 3240 Organizational Behavior (3).
MAR 3023 Basic Marketing Concepts (3).

General Business Breadth Requirements

All marketing majors must complete three courses as follows. Each course selected must be completed with a grade of "C–" or better. No course may be used to satisfy part of the general business breadth requirements and part of the marketing major area requirements.

MAN 4720 Strategic Management and Business Policy (3).

Plus two electives from the following list of courses:

MAN 3600 Multinational Business Operations (3).
MAR 3231 Retailing Management (3).
MAR 3400 Professional Selling (3).
QMB 3200 Quantitative Methods for Business Decisions (3).

Capstone Course

All marketing majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C" or better.

Major Area Requirements

All marketing majors must complete six courses as listed below. A grade of "C–" or better must be earned in each course used to satisfy the marketing major area requirements. No course may be used to satisfy part of the marketing major area requirements and part of the general business breadth requirements.

MAR 3503 Consumer Behavior (3).
MAR 4480 Marketing Strategy (3).
MAR 4613 Marketing Research (3).

Plus three electives from the following list of courses:

IDS 3121 Business Case Analysis and Solution Development (3).
ISM 4930 Social Media Analytics (3).
MAN 3504 Service Operations Management (3).
MAN 3600 Multinational Business Operations (3).*
MAN 4143 Contemporary Leadership Challenges (3).
MAN 4301 Human Resource Management (3).
MAR 3231 Retailing Management (3).*
MAR 3323 Promotional Management (3).
MAR 3400 Professional Selling (3).*
MAR 3461 Principles of Purchasing (3).
MAR 3711 Sports, Recreation, and Entertainment Marketing (3).
MAR 4156 Multinational Marketing (3).
MAR 4203 Logistics and Supply Chain Management (3).
MAR 4233 Social Media Marketing (3).
MAR 4238 Advanced Strategic Retail Management (3).
MAR 4403 Sales Management (3).
MAR 4415 Advanced Sales Techniques (3).
MAR 4524 Consumer Demand Analytics with Big Data (3).
MAR 4462 Seminar in Purchasing/Materials Management (3).
MAR 4614 Advanced Marketing Research (3).
MAR 4717 Strategic Sports Marketing (3).
MAR 4721 Electronic Marketing (3).
MAR 4832 Product Innovation Management (3).
MAR 4841 Services Marketing (3).
MAR 4939r Marketing Seminar (3).
MAR 4941 Marketing Internship (3).

*MAN 3600, MAR 3231, and MAR 3400 cannot be double-counted to satisfy the General Breadth Elective and the major requirements.

Honors in the Major

The Department of Marketing offers honors in the major to encourage talented students to undertake independent and original research as part of the undergraduate experience. For requirements and other information see the "University Honors Office and Honor Societies" chapter of this *General Bulletin.*

Requirements for a Major in Professional Sales

All students must complete:

1. the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*;
2. the state of Florida common prerequisites for professional sales majors;
3. the general business core requirements for professional sales majors;
4. the general business breadth requirements for professional sales majors; and
5. the major area requirements for professional sales majors.

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a major in professional sales, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All professional sales majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3).
FIN 3403 Financial Management of the Firm (3).
GEB 3213 Business Communications (3).
ISM 3541 Introduction to Business Analytics (3).
MAN 3240 Organizational Behavior (3).
MAR 3023 Basic Marketing Concepts (3).

General Business Breadth Requirements

All professional sales majors must complete three courses as follows. Each course must be completed with a grade of "C–" or better. No course may be used to satisfy part of the general business breadth requirements and part of the professional sales major area requirements.

MAN 4720 Strategic Management and Business Policy (3).
MAR 3400 Professional Selling (3).

Plus one elective from the following list of courses:

MAN 3600 Multinational Business Operations (3).
MAR 3231 Retailing Management (3).
QMB 3200 Quantitative Methods for Business Decisions (3).

Capstone Course

All professional sales majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C–" or better.

Major Area Requirements

All professional sales majors must complete six courses as listed below. A grade of "C–" or better must be earned in each course used to satisfy the professional sales major area requirements. No course may be used to satisfy part of the professional sales major area requirements and part of the general business breadth requirements.

MAR 4403 Sales Management (3).
MAR 4415 Advanced Sales Techniques (3).
MAR 4613 Marketing Research (3).
MAR 4941 Marketing Internship (3).

Plus two electives from the following list of courses:

ACG 3101 Financial Accounting and Reporting I (3).
ENT 4014 Creating New Ventures (3).
FIN 3244 Financial Markets, Institutions, and International Finance Systems (3).
IDS 3121 Business Case Analysis and Solution Development (3).
ISM 4113 Management Information Systems Analysis and Design (3).
MAN 3504 Service Operations Management (3).
MAN 3600 Multinational Business Operations (3). *
MAN 4143 Contemporary Leadership Challenges (3).
MAN 4301 Human Resource Management (3).
MAR 3231 Retailing Management (3). *
MAR 3323 Promotional Management (3).
MAR 3461 Principles of Purchasing (3).
MAR 3503 Consumer Behavior (3).
MAR 3711 Sports, Recreation, and Entertainment Marketing (3).
MAR 4156 Multinational Marketing (3).
MAR 4203 Logistics and Supply Chain Management (3).
MAR 4233 Social Media Marketing (3).
MAR 4238 Advanced Strategic Retail Management (3).
MAR 4462 Seminar in Purchasing/Materials Management (3).
MAR 4614 Advanced Marketing Research (3).
MAR 4717 Strategic Sports Marketing (3).
MAR 4721 Electronic Marketing (3).
MAR 4832 Product Innovation Management (3).
MAR 4841 Services Marketing (3).
MAR 4939r Marketing Seminar (3).
MAR 4941 Marketing Internship (3).
MAR 4946 Professional Sales Practicum (3).

*MAN 3600 and MAR 3231 cannot be double-counted to satisfy both the General Business Breadth Elective and the major area elective.

Requirements for a Major in Retail Management

All students must complete:

1. the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*
2. the state of Florida common prerequisites for marketing majors
3. the general business core requirements for marketing majors
4. the general business breadth requirements for marketing majors
5. the major area requirements for marketing majors

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a major in retail management, students must meet their admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All retail management majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3).
FIN 3403 Financial Management of the Firm (3).
GEB 3213 Business Communications (3).
ISM 3541 Introduction to Business Analytics (3).
MAN 3240 Organizational Behavior (3).
MAR 3023 Basic Marketing Concepts (3).

General Business Breadth Requirements

All retail management majors must complete three courses as follows. Each course selected must be completed with a grade of "C–" or better. No course may be used to satisfy part of the general business breadth requirements and part of the retail management major area requirements.

MAN 4720 Strategic Management and Business Policy (3).
MAR 3231 Retailing Management (3).

Plus one elective from the following list of courses:

MAN 3600 Multinational Business Operations (3).
MAR 3400 Professional Selling (3).
QMB 3200 Quantitative Methods for Business Decisions (3).

Capstone Course

All retail management majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720).

Major Area Requirements

All retail management majors must complete six courses as listed below. A grade of "C–" or better must be earned in each course used to satisfy the retail management major area requirements. No course may be used to satisfy part of the retail management major area requirements and part of the general business breadth requirements.

MAR 3503 Consumer Behavior (3).
MAR 4203 Logistics and Supply Chain Management (3).
MAR 4238 Advanced Strategic Retail Management (3).

Plus three electives from the following list of courses:

ACG 3101 Financial Accounting and Reporting I (3).
IDS 3121 Case Analysis and Solution Development (3).
ISM 4930 Social Media Analytics (3).
MAN 3504 Service Operations Management (3).
MAN 3600 Multinational Business Operations (3). *
MAN 4143 Contemporary Leadership Challenges (3).
MAN 4301 Human Resource Management (3).
MAR 3323 Promotional Management (3).
MAR 3400 Professional Selling (3). *
MAR 3461 Principles of Purchasing (3).
MAR 3711 Sports, Recreation, and Entertainment Marketing (3).
MAR 4156 Multinational Marketing (3).
MAR 4233 Social Media Marketing (3).
MAR 4403 Sales Management (3).
MAR 4415 Advanced Sales Techniques (3).
MAR 4462 Seminar in Purchasing/Materials Management (3).
MAR 4524 Consumer Demand Analytics with Big Data (3).
MAR 4613 Marketing Research (3).
MAR 4614 Advanced Marketing Research (3).
MAR 4717 Strategic Sports Marketing (3).
MAR 4721 Electronic Marketing (3).
MAR 4832 Product Innovation Management (3).
MAR 4841 Services Marketing (3).
MAR 4939r Marketing Seminar (3).
MAR 4941 Marketing Internship (3).
RMI 3011 Risk Management/Insurance (3).

* MAN 3600 and MAR 3400 cannot be used to satisfy the General Breadth Elective and the major requirements.

Definition of Prefixes

GEB—General Business
MAN—Management
MAR—Marketing

Undergraduate Courses

MAN 3600. Multinational Business Operations (3). Prerequisites: ECO 2013 and ECO 2023. This course provides an overview of the environments, markets, institutions, challenges, strategies, and operations of international and cross-cultural business; the globalization of business and associated challenges posed for the competitiveness of the modern enterprise; and the orientations, strategies, and tactics appropriate for international business success.

MAR 3023. Basic Marketing Concepts (3). Prerequisites: ECO 2023. This course is a required prerequisite for all marketing courses. Gives the student an understanding of the decision areas and the ability to utilize marketing concepts to make business decisions.

MAR 3231. Retailing Management (3). This course introduces students to the multifaceted world of retail. Students are exposed to the managerial side of retail principles including pricing strategies, multichannel retailing, consumer behavior, merchandising and customer service.

MAR 3323. Promotional Management (3). Prerequisite: MAR 3023. This course focuses on issues related to management of promotional tools including advertising, personal selling, sales promotion, public relations, and publicity.

MAR 3400. Professional Selling (3). Corequisite: MAR 3023. This course addresses the application of behavioral and persuasive communication theories, as well as the techniques necessary to develop effective personal selling skills within organizations.

MAR 3503. Consumer Behavior (3). Prerequisite: MAR 3023. This course provides students the opportunity to acquire knowledge and understanding of consumer behavior. Students learn about the consumer decision making process, what influences purchasing behavior, and the role of products and services in consumers' lives and society.

MAR 3711. Sports, Recreation and Entertainment Marketing (3). Prerequisite: MAR 3023. This course provides students a framework for understanding how marketing strategies and tactics can be successfully applied within sports, and within recreational and entertainment organizations.

MAR 4156. Multinational Marketing (3). Prerequisites: MAR 3023 and MAN 3600. This course introduces the student to marketing management decision making in international environments through the use of cases and/or business games.

MAR 4203. Logistics and Supply Chain Management (3). Prerequisite: MAR 3023. This course introduces the student to the management of logistics activities involved in the flow of goods, information, and funds throughout the supply chain.

MAR 4233. Social Media Marketing (3). Prerequisite: MAR 3023. This course introduces the field of social media marketing with a detailed study of the marketing concepts, customer engagement practices, platforms, analytics, and other technologies associated with marketing to customers using social media. Students learn to develop and present social media marketing strategies, including marketing plans and analytics. Students in this course come to understand the relevance and application of social media marketing principles, strategies, analytics, and practices in various business environments.

MAR 4238. Advanced Strategic Retail Management (3). This course introduces the complex nature of the retail industry, shows how to recognize and manage the many challenges when students begin their career, and examines the many characteristics of leadership and the necessary critical thinking and strategic decision-making skills they need to effectively build and lead teams.

MAR 4403. Sales Management (3). Prerequisites: MAR 2023 (C- or better) and MAR 3400 (C- or better). This course exposes the student to concepts, activities, and analysis pertaining to sales and the management of the sales force.

MAR 4415. Advanced Sales Techniques (3). Prerequisites: MAR 2023 (C- or better) and MAR 3400 (C- or better). This course builds upon and enhances student skills and knowledge developed in the basic professional selling course. Focus is on using a strategic and consultative sales model to develop, manage, and deliver realistic sales presentations.

MAR 4480. Marketing Strategy (3). Prerequisite: MAR 3023. This course teaches students to draw upon and utilize the knowledge and skills developed in marketing and business courses and integrate the frameworks and analytical tools of marketing strategy that will enable students to develop a cohesive strategy that an organization can execute.

MAR 4524. Consumer Demand Analytics with Big Data (3). This course is an advanced undergraduate class for mainly business students. However, students from economics, engineering, and other disciplines may also find it useful.

MAR 4613. Marketing Research (3). Prerequisites: MAR 3023 and QMB 3200. This course examines marketing research as an information-providing activity for the purpose of management decision making.

MAR 4614. Advanced Marketing Research (3). Prerequisite: MAR 4613. This course provides experience in designing and conducting actual marketing research studies.

MAR 4717. Strategic Sports Marketing (3). Prerequisites: MAR 3023 and MAR 3711. This course enables students to conduct strategic analyses relating to the marketing of sports. Topics include a wide range of issues within the realm of professional sports, in an interactive seminar and a workshop-like environment.

MAR 4721. Electronic Marketing (3). Prerequisite: MAR 3023. This course examines Internet communication, direct sales through electronic commerce, as well as Internet-based promotional communications.

MAR 4832. Product Innovation Management (3). Prerequisite: MAR 3023. This course is a structured way of thinking about product development. Students are provided with an up-to-date toolbox for developing and managing new products. The course focuses on hands-on individual assignments, creating aura to stimulate customer awareness, and a group project to stimulate the development process of a new and original product or service.

MAR 4841. Services Marketing (3). Prerequisite: MAR 3023. This course examines marketing in the service industries with particular emphasis on unique aspects of services marketing, the service-marketing mix, and the implementation of service strategies.

MAR 4860. Customer Relationship Management (3). Prerequisite: MAR 3023. This course introduces students to the basic theories and terminology of customer relationship management. Special emphasis is placed on customer retention and technological tools for enhancing customer relationships.

MAR 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

MAR 4939r. Marketing Seminar (3). Prerequisite: MAR 3023. This course covers various topics taught by different instructors each semester. May be repeated to a maximum of six semester hours.

MAR 4941. Marketing Internship (3). Prerequisites for Marketing Majors: MAR 3023, and one other 3 credit hour general business core requirement course. Prerequisites for Professional Sales Majors: MAR 3023, MAR 3400 and one other 3 credit hour general business core requirement course. This course is a marketing internship designed for marketing majors who want to gain real world experience in the marketing field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor and the internship director.

MAR 4946. Professional Sales Practicum (3). Prerequisites: MAR 3023, MAR 3400, and one other sales course; Consent of internship director or sales program director. This course is designed for Professional Sales majors who want to gain real-world experience through one of three options: (1) on the job practice, i.e., a sales internship, (2) strategic account management, i.e., a faculty-directed study of sales research techniques, or (3) a professional sales competition, with the permission of the sales program director.

MAR 4970r. Honors Thesis (3). Prerequisites: MAR 3023 and admission to the honors-in-the-major program. May be repeated to a maximum of six semester hours. Six semester hours of thesis are required to complete honors in the major.

Graduate Courses

GEB 5907r. Special Studies in Business (1–3).
GEB 6904r. Readings for Examination (1–12). (S/U grade only.)
MAR 5028. Fundamentals of Marketing (3).
MAR 5107. Business Ethics and Social Responsibility (3).
MAR 5125. Marketing Strategy in the Global Environment (3).
MAR 5336. Strategic Corporate Communication (3).
MAR 5408. Sales Leadership (3).
MAR 5409. Business-to-Business Sales and Marketing (3).
MAR 5416. Strategic Sales Force Management (3).
MAR 5505. Consumer Behavior (3).
MAR 5625. Marketing Research and Analytics (3).
MAR 5675. Marketing Analytics (3).
MAR 5816. Marketing Strategy (3).
MAR 5818. Corporate Affairs Management (3).
MAR 5849. Service Marketing Management (3).
MAR 5861. Customer Relationship Management (3).
MAR 5907r. Directed Individual Study (1–3). (S/U grade only.)
MAR 5908r. Special Studies in Management (1–3).
MAR 5935r. Special Topics in Marketing (1–3).
MAR 5957r. Global Business Seminar (1–3).
MAR 6506. Seminar in Consumer Behavior Methods (3).
MAR 6575. Seminar in Marketing: Selected Topics in Consumer Behavior (3).
MAR 6636. Quantitative Methods I: Measurement, Scaling, and Choice (3).
MAR 6665. Seminar in Marketing Models (3).
MAR 6817. Seminar in Marketing Management (3).
MAR 6828. Seminar in Marketing: Elements and Integration of Marketing Strategy (3).
MAR 6918r. Supervised Research (1–3). (S/U grade only.)
MAR 6919r. Supervised Teaching (1–3). (S/U grade only.)
MAR 6979. Seminar in Marketing: Research Methodology (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MATERIALS SCIENCE AND ENGINEERING
Undergraduate Programs

The Graduate School

Website: *http://materials.fsu.edu*
Director: Eric Hellstrom

Materials Science and Engineering is an interdisciplinary graduate program that leads to the degrees of Master of Science (MS) and Doctor of Philosophy (PhD) in Materials Science and Engineering. Students interested in this program have a wide variety of backgrounds: engineering disciplines (including: biomedical, civil, chemical, computer, engineering physics, environmental, industrial, manufacturing, materials science, mechanical), applied mathematics, biology, chemistry, geology, and physics. Participating faculty hold appointments in Biological Science, Chemical and Biomedical Engineering, Chemistry and Biochemistry, Civil and Environmental Engineering, Electrical and Computer Engineering, Industrial and Manufacturing Engineering, Mechanical Engineering, Physics, and Scientific Computing.

The curriculum requires core and specialization courses, plus a thesis or dissertation. The core courses are designed to give students from the various disciplines a common background in materials. The courses for the degrees are taught within the participating departments.

Definition of Prefix

ISC—Interdisciplinary Sciences

Graduate Courses

ISC 5905r. Directed Independent Study - MS&E (1–12). (S/U grade only.)
ISC 5937r. Interdisciplinary Seminar Series - MS&E (0). (S/U grade only.)
ISC 6970r. Thesis Research - MS&E (1–12). (S/U grade only.)
ISC 6976r. Master's Thesis Defense-MS&E (0). (P/F grade only.) May be repeated with instructor permission.
ISC 8960r. PhD Preliminary Exam - MS&E (0). (P/F grade only.)
ISC 8980r. Dissertation Research - MS&E (1–12). (S/U grade only.)
ISC 8983r. PhD Dissertation Defense- MS&E (0). (P/F grade only.) May be repeated with instructor permission.

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MATHEMATICS EDUCATION:
see Middle and Secondary Education

Undergraduate Department of MATHEMATICS

College of Arts and Sciences

Website: *http://www.math.fsu.edu/*
Chair: Washington Mio; **Associate Chair for Academic Affairs:** Bellenot; **Associate Chair for Graduate Studies:** Ökten; **Associate Chair for Undergraduate Studies:** Kercheval; **Director of Pure Mathematics:** Aldrovandi; **Director of Applied and Computational Mathematics:** Gallivan; Interim **Director of Financial Mathematics:**Ökten; **Director of Biomathematics:** Bertram; **Coordinator of Graduate Teaching Assistants:** Kirby; **Coordinator of Actuarial Science:** Paris; **Professors:** Aldrovandi, Aluffi, Bellenot, Bertram, Bowers, Cogan, S. Fenley, Gallivan, Heil, Huckaba, Hurdal, Hussaini, Kercheval, Klassen, Mio, Musslimani, Nolder, Ökten, Sussman, Tam, van Hoeij; **Associate Professors:** Agashe, Fahim, Kim, Magnan, R. Oberlin, Petersen; **Assistant Professors:** Ballas, Bao, Bauer, Ekren, Farhat, Foster, Jain, Lee, Moore, Needham, Reznikov, Zhu; **Research Associate in Mathematics:** Boyd; **Teaching Faculty III**: Blackwelder, Grigorian, Kirby, LeNoir, Paris, Wooland; **Teaching Faculty II:** Ewald, Harris; **Teaching Faculty I:** Hollingsworth, Maltby, Valdes; **Professors Emeriti:** Blumsack, Bryant, Case, Gilmer, Hironaka, Kopriva, Kreimer, Mesterton-Gibbons, Mott, Nichols, D. Oberlin Quine, Sumners, Wright; **Courtesy Professors:** Absil, Beaumont, Chen, Croicu, le Dimet, Erlebacher, M. Fenley, Fusaro, Gan, Garreau, Gunzburger, Marcolli, Mascagni, Mathelin, Moorer, Navon, Peterson, Tabak, Tang, van Dooren, Xiaoqiang, Wang

The Department of Mathematics (*http://www.math.fsu.edu*) offers programs of study leading to the Bachelor of Science (BS) and Bachelor of Arts (BA) degrees, the Master of Science (MS) and Master of Arts (MA) degrees, and the Doctor of Philosophy (PhD) degree. (For details of the master's and doctoral degrees, see the *Graduate Bulletin*.) A combined bachelor's/master's pathway may be developed for a strong undergraduate, especially one entering with advanced credit. This allows a student to earn both a bachelor's and a master's degree in about five years. A degree in mathematics can be regarded as the central component of a liberal education, or as preparation for professional study in another field or mathematics graduate study. Students can also look forward to employment in an industrial or financial firm, a governmental agency, or teaching in a secondary, college, or university institution. The Actuarial Science program is professionally oriented toward the insurance and financial sectors.

The department has a widely recognized research faculty, all of whom teach undergraduate students. Under the direction of a faculty member, selected students may choose to pursue an individual research project under Honors in the Major. For all students, the University provides Internet access, course Web pages and communications, and access to a number of leading databases, including the Mathematical Review. The department operates its own network of computers and computer labs. Faculty and students in the department have access to a variety of mathematical software, which is used in courses and in research. For additional information, see the departmental Web site.

The department offers opportunities for its majors to participate in learning activities outside the classroom. The **Society of Undergraduate Mathematics Students** provides a venue in which undergraduate students meet monthly to share interests and collaborate with other like-minded individuals. **Future Seminole Actuaries** benefits from a first-rate professional relationship with actuarial employers; actuaries from government, insurance, and consulting firms often visit the department to describe the field and interview students for summer internships and employment. The students share experiences about summer internships and prepare for actuarial examinations and well-placed graduates of the program help current students. The department fields a team for the **William Lowell Putnam Examination**, a nationwide competition among mathematics students conducted annually by the Mathematical Association of America. A Fall seminar is held for students to become familiar with Putnam-style problems and to hone their skills at solving them.

Departmental Programs

There are five majors leading to the bachelor's degree: applied and computational mathematics, pure mathematics, biomathematics, mathematics/FSU-Teach, and actuarial science (please consult the "Program in Actuarial Science" section of this *General Bulletin*). In any of these majors, students who intend to pursue graduate work in higher mathematics are encouraged to include appropriate mathematics sequences. Under the direction of a faculty member, a student may pursue a flexible major program to fit particular interests or an individual research project under honors in the major.

Combined BS/MS Pathways

There are two approved mathematics BS/MS pathways which allow a student to get both a BS and an MS by double-counting up to twelve graduate credit hours. The two pathways are the Pure Mathematics pathway and the Applied and Computational Mathematics pathway.

Applicants are eligible to apply for admission when they have at least 60 undergraduate hours completed, at least 24 of which at FSU. The minimum GPA is 3.0, with at least a 3.2 in mathematics courses above MAC 2311. Note that satisfying these requirements does not guarantee admission. Early planning is advised. Consult with the mathematics graduate advisor or the mathematics Associate Chair of Graduate Studies if interested.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in actuarial science, applied mathematics, biomathematics, mathematics, and mathematics/FSU-Teach satisfy this requirement by earning a grade of "C–" or higher in COP 3014 or ISC 3313.

Admission Statement

All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Mathematics

1. COP XXXX: one scientific programming course for three credit hours designed for computer science majors
2. MAC X311
3. MAC X312
4. MAC X313
5. BSC XXXX/XXXXL or CHM XXXX/XXXXL or GLY XXXX/XXXXL or PHY XXXX/XXXXL: one laboratory based science course for four credit hours designed for science majors
6. MAP X302

Note: A "C" grade or better in all coursework is required for admission.

Actuarial Science

1. COP XXXX: one scientific programming course for three credit hours designed for computer science majors
2. ECO X013
3. ECO X023
4. MAC X311
5. MAC X312
6. MAC X313

Note: A "C" grade or better in all coursework is required for admission.

FSU-Teach Mathematics

1. COP XXXX: one scientific programming course for three credit hours designed for computer science majors
2. MAC X311
3. MAC X312
4. MAC X313
5. BSC XXXX/XXXXL or CHM XXXX/XXXXL or PHY XXXX/XXXXL or GLY XXXX/XXXXL: one laboratory based science course for four credit hours designed for science majors
6. MAP X302
7. SMT X043
8. SMT X053

Note: A "C" grade or better in all coursework is required for admission. Transfer students will be able to take SMT X043 and SMT X053 when admitted to upper division.

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

Academic Performance

A grade of "C–" or better is required in all courses to be counted toward these degrees. Upon formal admission to the major, a student must not accumulate more than 2 unsatisfactory grades (grades below a "C–" or grades of "U") in courses required for the major, excluding State Common Program Prerequisites listed as Term 1–4 Milestones, taken after enrolling in FSU. In addition, Actuarial Science majors must also maintain a GPA of 2.5 for all major and collateral courses and State Common Program Prerequisites listed as Term 5–8 Milestones. For all math majors, collateral courses include COP 3014 or ISC 3313, PHY 2048C, STA 4321. For biomathematics, it includes the collateral biology, chemistry, and physics courses. For actuarial science, it includes the collateral courses with prefixes ACG, ECO, FIN, RMI, or STA. For FSU-Teach, it includes the collateral coursework with prefixes BSC, HIS, MAT, RED, SMT, or TSL. Exceptions to this policy require a petition to the department.

Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*. The student should also obtain, from the departmental office and Web site, revisions to the degree guidelines since this publication.

The Bachelor of Arts (BA) degree in mathematics or actuarial science can be obtained by completion of the Bachelor of Science (BS) degree requirements plus additional courses required by the University as set forth in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.

Students should complete the state of Florida common program prerequisites, including the physics (all the Mathematics majors) or the economics (Actuarial Science majors) requirements, during the first two college years. Actuarial Science majors should also complete the accounting course during the first two college years. Note that all majors have a computing requirement that can be used as the computing prerequisite course, but not vice versa.

A student who expects to continue on to doctoral work in mathematics is encouraged to complete the foreign language requirement in French, German, or Russian.

Mathematics courses at the 4000 level applied toward any departmental major must be taken at Florida State University unless specifically exempted by the chair on written request.

All majors must complete an exit survey.

Honors in the Major

The Department of Mathematics offers honors in the major designed to introduce the student to the process of independent and original research. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

FSU-Teach Program in Teaching Mathematics

For those interested in teaching mathematics, FSU-Teach is an innovative approach to teacher education that involves collaboration between scientists, mathematicians, and education faculty at Florida State University. In FSU-Teach, students will develop deep science or mathematics knowledge and the knowledge, skill, and experience needed to be an effective science or math teacher. The program will pay for tuition for the first two courses, and work study positions with scientists, mathematicians, and local schools are available. For more information, see our website: *http://fsu-teach.fsu.edu/*.

Requirements for a Minor in Mathematics

A minor in mathematics consists of twelve semester hours in courses with prefixes MAA, MAC, MAD, MAP, MAS, MAT, MGF, MHF, and MTG, but not including any of the courses numbered 1XXX, or MAC 2233. A grade of "C–" or better must be earned in each course counted toward the minor.

Prerequisite Courses

Before taking any mathematics course, the student must complete with a grade of "C–" or better each course prerequisite to that course. Moreover, a student who earns a "C–" or better in a course with one or more stated or implied prerequisites may not subsequently earn credit in the prerequisite course(s). For example, a student who has earned a "C–" or better in MAC 2312 may not subsequently enroll in MAC 1105, 1114, 1140, or 2311.

Credit Note 1. In exception to the preceding paragraph, a transfer student may take MAC 1105 for credit even though the student has a "C–" or better in a transfer course that has been equated to a course for which MAC 1105 is prerequisite, provided the student has taken the AMP (Advanced Mathematics Placement) test and has not yet satisfied the Area I liberal studies requirement in mathematics.

Credit Note 2. In cases in which a student has earned a "D+", "D", or "D–" in a course and subsequently takes a similar course at the same level, the hours toward graduation for the first course will be disallowed as soon as the student passes the second course. These cases are: MAC 2233 after MAC 2311; MAC 2311 after MAC 2233.

Credit Note 3. Credit cannot be obtained for both MAD 2104 and MGF 3301 unless permission is granted by the department.

Baccalaureate Degree in Mathematics

Courses required for each of the degree options in mathematics are MAP 2302 and MAS 3105. The student must exhibit proficiency in a scientific computer programming language and must also satisfy the University's computer skills competency requirement. Students will normally complete COP 3014 or ISC 3313 to satisfy both those requirements, although the former may be shown by courses in C, C++, FORTRAN, Java, or another approved higher-level language. STA 4321 is required. Representative requirements for the four mathematics major options follow. Students should refer to the departmental Web site (*http://www.math.fsu.edu*) or the departmental office (*208 LOV*) for the most current information.

Major in Mathematics. In addition to the state of Florida common program prerequisites and the courses above, the student will complete PHY 2048C and will complete the courses MGF 3301; MAS 4302; MAA 4224 or 4226; and three of the following, of which at least two must be at the 4000 level: MAA 4227, 4402; MAD 3105, 3703, 4704; MAP 4103, 4153, 4180, 4202, 4216, 4341, 4342; MAS 4106, 4203, 4303; MAT 4934; MHF 4302; MTG 4302. At least one of the sequences following, or an approved substitution, must be included: MAA 4226–4227, MAA 4402 and MTG 4302, MAD 3703–4704, MAP 4341–4342, or MAS 4302–4303. Additional computer languages are recommended. The required collateral courses of PHY 2048C, COP 3014, STA 4321, and a State Common Prerequisite science course, chosen from BSC 2010, CHM 1045, GLY 2010, or PHY 2049C, constitute an acceptable interdisciplinary collateral minor for students in this major.

A student intending to do graduate work in pure mathematics should take MAA 4226–4227 and MAS 4302–4303 as well as MAA 4402 and MTG 4302.

Major in Applied Mathematics. In addition to the state of Florida common program prerequisites and the courses above, the student will complete PHY 2048C (PHY 2049C is highly recommended) and the courses MAD 3703; MAP 4103; MAP 4341; and MGF 3301; and two of the following: MAA 4224 or 4226, 4227, 4402; MAD 4704; MAP 4153, 4180, 4202, 4216, 4342; MAS 4106; MAT 4934. The required collateral courses of PHY 2048C, COP 3014, STA4321, and a State Common Prerequisite science course, chosen from BSC 2010, CHM 1045, GLY 2010, or PHY 2049C, constitute an acceptable interdisciplinary collateral minor for students in this major.

Major in Biomathematics. This modern major can lead to employment in the area of biological applications, to medical school, or to graduate school in mathematical biology or the sciences. In addition to the state of Florida common program prerequisites, the student will complete collateral science courses including BSC 2010, 2010L, 2011, 2011L; CHM 1045, 1045L, 1046, 1046L; PHY 2048C; and PCB 3063. No additional minor is required. MGF 3301 and MAP 4481 are required, along with additional elective requirements; students should consult the departmental office or the Web site for exact elective requirements.

Major in Mathematics/FSU-Teach. In addition to what was mentioned above (i.e. the state of Florida common program prerequisites, COP 3014, MAP 2302, MAS 3105, and STA 4321), the student will complete PHY 2048C, MGF 3301 (the introduction to proofs course), and a course in each of four mathematical areas of Analysis, Algebra, Geometry, and Modeling, and one additional elective (at the 3000 level or above). The courses acceptable for each mathematical area are: for Algebra: MAS 3301, MAS 4203 or MAS 4302; for Analysis: MAA 4402, MAA 4224 or MAA 4226; for Geometry: MTG 4212; for Modeling: MAP 4103, MAP 4175, MAP 4180 or MAP 4481; and for electives: MAA 4227, MAD 3105, MAP 4170, MAP 4153, MAP 4202, MAP 4216, MAP 4341, MAS 4106, MAS 4303, MHF 4302, MTG 4302 or additional courses from the Algebra, Analysis, Geometry, and/or Modeling groups. The FSU-Teach educational courses are a collateral major and can count as the minor for the Mathematics/FSU-Teach option.

Note: All majors must complete an exit survey.

Baccalaureate Degree in Actuarial Science

In addition to the state of Florida common program prerequisites, there are interdisciplinary degree requirements. Representative requirements include: MAP 4170, 4175, COP 3014 or equivalent; and four repetitions of actuarial tutorial MAT 4930r. STA 4321 is required.

The student must also take the following courses in business and economics: ACG 2021; ECO 2013 or 3203, and ECO 2023 or 3101; FIN 3403 and 4504; RMI 3011. These courses satisfy the requirements for a minor in business, and no additional minor is required.

Note: For the most recent information concerning course requirements for this program, please refer to *http://www.math.fsu.edu*.

Additional requirements include a total of six courses from three course groups. Students must complete:

1. Two courses chosen from MAP 2302, MAP 4176, and MAS 3105.
2. At least one course chosen from MAA 4224, 4226, 4227; MAD 3703; MAP 4341; MAS 4106; STA 4203, 4322, 4853.
3. At least one of the following courses: ECO 3101, 3203, 4401, 4421; FIN 4514; RMI 4115, 4135, 4224, 4292.

Minors and Second Majors

Students may double major in actuarial science and any of the four mathematics majors (pure, applied/computational, biomathematics, or Math/FSU-Teach) by completing all of the prerequisite and degree requirements for each selected program. A student may also complete a second major in another department. The flexible plan major is particularly appropriate for students in other majors who seek deeper mathematics study, or students in mathematics who have interdisciplinary interests. Mathematics has no restrictions on the number of hours that can overlap with another major.

Information concerning acceptable minors and second majors for students majoring in a department program is available from the departmental office. The required collateral courses for the Actuarial Science, Applied Computational Mathematics, Biomathematics, and Mathematics, and Mathematics/FSU-Teach majors constitute an acceptable interdisciplinary collateral minor.

Definition of Prefixes

MAA—Mathematics: Analysis
MAC—Mathematics: Calculus and Precalculus
MAD—Mathematics: Discrete
MAE—Mathematics Education
MAP—Mathematics Applied
MAS—Mathematics: Algebraic Structures
MAT—Mathematics
MGF—Mathematics: General and Finite
MHF—Mathematics: History and Foundations
MTG—Mathematics: Topology and Geometry
OCP—Physical Oceanography

Undergraduate Courses

MAA 4224. Introduction to Analysis I (3). Prerequisites: MAC 2313, MAS 3105, and prior experience with mathematical proofs (MGF 3301, MAD 2104 or other proving experience). Not open to students with credit in MAA 4226. This course is a rigorous treatment of elementary calculus. Topics include the completeness of the real numbers, sequences and series, limits and continuity, derivatives, integrals, the Fundamental Theorem of Calculus, and sequences and series of functions. Students intending graduate study in mathematics should take MAA 4226.

MAA 4226. Advanced Calculus I (3). Prerequisites: MAC 2313 (C- or better) and MAS 3105 (C- or better) and MGF 3301 (C- or better). This course covers functions, sequences, limits; continuity, uniform continuity; differentiation; integration; convergence, uniform convergence. For strong students with advisor approval only.

MAA 4227. Advanced Calculus II (3). Prerequisite: MAA 4226. This course is a continuation of MAA 4226.

MAA 4402. Complex Variables (3). Prerequisite: MAC 2313 (C- or better). This course covers analytic functions; Cauchy-Riemann conditions; complex integration; Cauchy's theorem and integral formula; power series; analytic continuation; Riemann surfaces; residues and applications; and conformal mapping.

MAA 4934r. Topics in Analysis (1–3). Prerequisite: Instructor permission. Special topics course. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

MAC 1105. College Algebra (3). Prerequisite: MAT 1033 with a grade of "C–" or better or a suitable mathematics examination placement score. Recommended background: two years of high school algebra. This course is a review of algebraic operations, equations, and inequalities; functions and functional notation; graphs; inverse functions; linear, quadratic, rational function; absolute value; radicals; exponential and logarithmic functions; system of equations and inequalities; applications. On basis of test scores the student may be required to take a community college course before MAC 1105.

MAC 1114. Analytic Trigonometry (3). Prerequisite: MAC 1105. This course covers trigonometric functions, inverse trigonometric functions and their graphs; identities and conditional equations; solution of triangles; trigonometric form of complex numbers; DeMoivre's theorem and nth roots; introduction to plane vectors.

MAC 1140. Precalculus Algebra (3). Prerequisites: MAC 1105 (C- or better) or MAC 1114 (C- or better) or MAC 2233 (C- or better). This course covers functions and graphs, especially higher degree polynomial, rational, exponential, and logarithmic functions; systems of equations; solution of linear systems, matrix methods; determinants; sequences and series, induction; and the binomial theorem. The course also explores applications, approximation, and methods of proof. May be taken concurrently with MAC 1114.

MAC 1147. Precalculus Algebra/Trigonometry (5). Prerequisite: MAC 1105 or suitable mathematics examination placement score. This course is a one-semester course encompassing the topics of MAC 1140 (Precalculus Algebra) and MAC 1114 (Analytic Trigonometry). See the topics for MAC 1140 and MAC 1114.

MAC 2233. Calculus for Business (3). Prerequisite: MAC 1105 (C– or better), MAC 1114 (C– or better), MAC 1140 (C– or better) or MAC 1147 (C– or better). This course covers limits, continuity, first and higher derivatives, and the differential, with applications to graphing, rates of change, and optimization methods; techniques of integration and applications; introduction to multivariate calculus. Not open to students who have credit in MAC 2311 with a grade of "C–" or better.

MAC 2311. Calculus with Analytic Geometry I (4). Prerequisites: MAC 1147; or MAC 1140 and MAC 1114; or suitable mathematics examination placement score. This course covers polynomial, trigonometric, exponential, and logarithmic functions; first and second derivatives and their interpretations; definition and interpretation of the integral; differentiation rules; implicit differentiation; applications of the derivative; anti-derivatives; fundamental theorem of calculus. This course must be taken for reduced credit by students with prior credit for some of the content.

MAC 2312. Calculus with Analytic Geometry II (4). Prerequisite: MAC 2311 or suitable mathematics examination placement score. This course covers techniques of integration; applications of integration; series and Taylor series; differential equations. This course must be taken for reduced credit by students with prior credit for some of the content.

MAC 2313. Calculus with Analytic Geometry III (5). Prerequisite: MAC 2312. This course covers functions of several variables and their graphical representations; vectors; partial derivatives and gradients; optimization; multiple integration; polar, spherical, and cylindrical coordinate systems; curves; vector fields; line integrals; flux integrals; divergence theorem and Stokes' theorem. This course must be taken for reduced credit by students with prior credit for some of the content.

MAD 2104. Discrete Mathematics I (3). Prerequisite: MAC 2311 or COP 3014 and MAC 1140. Recommended prerequisite: MAC 2311. This course covers techniques of definition and logical argument, sets and functions, propositional logic, introduction to graphs and relations, and applications. Mathematics majors should take MGF 3301 instead of MAD 2104.

MAD 3105. Discrete Mathematics II (3). Prerequisite: MAD 2104 or MGF 3301. Recommended prerequisite: MAC 2311. This course covers techniques of definition and logical argument, graphs and diagraphs, relations, Boolean algebra, and applications.

MAD 3703. Numerical Analysis I (3). Prerequisites: MAC 2312 with a grade of "B–" or better or MAC 2313 with a grade of "C–" or better, MAS 3105, and competence in a programming language suitable for numeric computations, such as C, C++, Fortran, Java, or Python. This course covers root finding, interpolation and polynomial approximation, numerical differentiation and integration, direct and iterative methods for systems of linear equations.

MAD 4300. Graph Theory and Networks (3). Prerequisite: MAS 3105. This course provides the mathematical tools necessary to analyze abstract and real-life networks. Topics include mathematical network representation, the various forms of network centrality, the structure of real-life networks, and random networks.

MAD 4704. Numerical Analysis II (3). Prerequisites: MAD 3703 and MAP 2302. This course covers approximation theory, numerical solution of nonlinear systems, boundary value problems and initial value problems for ordinary differential equations.

MAD 4934r. Topics in Discrete or Computational Mathematics (1–3). Prerequisite: Instructor permission. Special topics course. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

MAE 4816. Elements of Geometry (3). This course explores a variety of traditional and innovative geometric topics via a hands on approach. Topics include congruence, similarity, Pythagorean triples, and areas of curvilinear figures. Not open to students majoring in mathematics.

MAP 2302. Ordinary Differential Equations (3). Prerequisite: MAC 2312 with a grade of "B–" or better or MAC 2313 with a grade of "C–" or better. This course covers differential equations of the first order, linear equations of the second, systems of first order equations, power series solutions, Laplace transforms, numerical methods. Not open to students having credit in MAP 3305.

MAP 2480. Biocalculus Computer Laboratory (1). Prerequisite: MAC 2311. This computer laboratory applies calculus methods and mathematical programming software to assist students in solving problems from biology, medicine, and psychology.

MAP 3305. Engineering Mathematics I (3). Prerequisite: MAC 2313 or MAC 2312 with a grade of "B–" or better. This course covers ordinary differential equations, Laplace transform, and linear algebra: determinants, matrices, eigenvalues, and eigenvectors. Not open to students having credit in MAP 2302.

MAP 3306. Engineering Mathematics II (3). Prerequisites: MAC 2313 and MAP 2302 or MAP 3305. This course offers Fourier series and Fourier transforms, introduction to partial differential equations. Not open to students having credit in MAP 4341.

MAP 4103. Mathematical Modeling (3). (S/U grade only.) Prerequisites: MAC 2313 (C- or better) and MAP 2302 (C- or better) and MAS 3105 (C- or better) and PHY 2048C (C- or better). This course covers the application of mathematics to real life situations, construction of mathematical models, use of elementary and advanced mathematical methods, and case studies.

MAP 4153. Vector Calculus with Introduction to Tensors (3). Prerequisite: MAC 2313 (C- or better). This course covers vector calculus: gradient, divergence, curl; differential operators in orthogonal curvilinear coordinates; line, surface, and volume integrals; Stokes' and Green's theorems; subscript notation, Cartesian tensors; and applications.

MAP 4170. Introduction to Actuarial Mathematics (4). Prerequisite: MAC 2312. This course covers amount function, dollar-weighted and time-weighted rates, force of interest; special annuity types, bonds, capitalization, and applications. Yield curves, spot rates, forward rates, duration, convexity, and immunization and additional financial concepts.

MAP 4175. Actuarial Models (4). Prerequisites: MAP 4170 and STA 4321. This course covers single- and multiple-life survival analysis; mortality laws, deterministic methods, and contingent payments and annuities; premium principles and reserves for continuous, discrete, and semi-continuous insurance products; multiple decrement theory (competing risks) and applications.

MAP 4176. Advanced Actuarial Models, Credibility, and Simulation (4). Prerequisite: MAP 4175. This course covers claim frequency models, individual loss models, aggregate loss models, multiple-life and multiple-death decrement survival models, multiple-state transition models, credibility theory, and simulation.

MAP 4180. Game Theory and Applications (3). Prerequisites: MAC 2313, MAS 3105, MAP 2302, and STA 4321. This course covers solution concepts for noncooperative games. Nash equilibrium. Selection criteria. Evolutionary stable strategies. Cooperative games in strategic form. Characteristic function games. The prisoners dilemma. Applications.

MAP 4202. Optimization (3). Prerequisites: MAC 2313, MAD 3703, and MAS 3105. This course covers linear programming, unconstrained optimization, searching strategies, equality and inequality constrained problems.

MAP 4216. Calculus of Variations (3). Prerequisites: MAP 2302 and MAA 4226 or MAA 4224 or MAP 4341. This course covers fundamental problems, weak and strong extrema, necessary and sufficient conditions, Hamilton-Jacobi theory, dynamic programming, control theory and Pontryagins maximum principle.

MAP 4341. Elementary Partial Differential Equations I (3). Prerequisites: MAC 2313 and MAP 2302 or MAP 3305. This course covers separation of variables, Fourier Series, Sturm-Liouville problems, multidimensional initial boundary value problems, nonhomogeneous problems, Bessel functions, and Legendre polynomials.

MAP 4342. Elementary Partial Differential Equations II (3). Prerequisite: MAP 4341. This course covers solution of first-order quasi-linear partial differential equations, classification and reduction to normal form of linear second-order equations, Green's function, infinite domain problems, the wave equation, radiation condition, spherical harmonics.

MAP 4481. Mathematical Modeling in Biology (3). Prerequisite: MAC 2312. Recommended prerequisite: MAP 2480. This course is an introduction to the use of mathematical models in biology. Linear and nonlinear difference and ordinary differential equations, linear stability analysis, phase plane analysis. Applications may include population biology, infectious diseases, chemical kinetics, and physiology.

MAP 4934r. Topics in Applied Mathematics (1–3). Prerequisite: Instructor permission. Special topics course. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

MAS 3105. Applied Linear Algebra I (4). Prerequisite: MAC 2312. This course covers Gaussian elimination, vector spaces, least squares problems, determinants, eigenvalues and eigenvectors, linear transformations, applications.

MAS 3301. Introduction to Modern Algebra (3). Prerequisites: MAC 2312 and MAS 3105. This course covers groups, permutations and symmetries, rings, integral domains, properties of the integers, fields and rational numbers. Mathematics majors other than FSU-Teach must take MAS 4302 instead.

MAS 4106. Applied Linear Algebra II (3). Prerequisites: MAC 2313 (C- or better) and MAS 3105 (C- or better). This course covers positive definite matrices, matrix computation, linear programming and game theory. Applications.

MAS 4203. Theory of Numbers (3). Prerequisites: MAS 3105 and prior experience with mathematical proofs (MGF 3301, MAD 2104, or other proving experience). This course covers the Euclidean algorithm; congruencies, quadratic residues, the law of quadratic reciprocity, and an elementary discussion of arithmetic functions and distribution of primes.

MAS 4302. Introduction to Abstract Algebra I (3). Prerequisites: MAS 3105 and prior experience with mathematical proofs (MGF 3301, MAD 2104 or other proving experience). This course covers groups, permutation groups, subgroups, group homomorphisms, structure of groups, rings, ideals, ring homomorphisms, rings of quotients, polynomials, factorization, fields, field extensions.

MAS 4303. Introduction to Abstract Algebra II (3). Prerequisite: MAS 4302. This course is a continuation of MAS 4302.

MAS 4934r. Topics in Algebra (1–3). Prerequisite: Instructor permission. Special topics course. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

MAT 3503. Functions and Modeling (3). Prerequisite: MAC 2312. This course includes group and individual activities designed to strengthen knowledge of, and connections among, topics in secondary and college mathematics. Problem-solving; gathering and analyzing data; and modeling using linear, polynomial, and trigonometric functions, and parametric and polar equations are also explored. Students discuss and present work in class, and make use of various technologies.

MAT 3930r. Special Topics in Mathematics (1–3). May be repeated within the same term to a maximum of twelve semester hours.

MAT 4906r. Directed Individual Study (1–4). May be repeated within the same term to a maximum of thirty semester hours.

MAT 4930r. Special Topics in Mathematics (1–3). (S/U grade only.) May be repeated to a maximum of twelve semester hours.

MAT 4934r. Honors Work (3). May be repeated to a maximum of nine semester hours.

MAT 4945r. Undergraduate Professional Internship (1–3). (S/U grade only.) Prerequisite: Instructor permission. This course is a supervised internship individually assigned to accommodate the student's professional development in an area of application (e.g., actuarial science; industrial applications). May be repeated to a maximum of three semester hours.

MGF 1106. Mathematics for Liberal Arts I (3). Prerequisite: MAT 1033 with a grade of "C–" or better or a suitable mathematics examination placement score. This course covers set theory; symbolic logic; counting principles; permutations and combinations; probability; statistics; geometry; applications and history of mathematics. Recommended background: two years of high school algebra. Course is not intended for students whose programs require precalculus or calculus courses.

MGF 1107. Topics in Practical Finite Mathematics (3). Prerequisites: MAT 1033 with a grade of "C–" or better or a suitable mathematics examination placement score. Recommended background: Two years of high school algebra. This course covers financial mathematics; linear and exponential growth; numbers and number systems; history of mathematics; elementary number theory; voting techniques; graph theory; game theory; geometry; and computer applications.

MGF 1214. Environmental Mathematics (3). This course is an elementary introduction to mathematical models useful in understanding and solving environmental problems. The H.T. Odum energy diagrams for energy flows provide visual models that are translated into flow equations, which can then be solved by ordinary calculators. Recommended background: two years of high school algebra.

MGF 3301. Introduction to Advanced Mathematics (3). Prerequisite: MAC 2312. This course is an introduction to the methods of mathematics through such a variety of classical and modern topics as set theory, algebra, real number topology, and graph theory. Axioms and proofs are emphasized throughout. Not open to students who have received credit for MAD 2104.

MHF 3111. Calculus and its History (3). Prerequisite: MAC 2311. This course investigates key milestones in the development of calculus, beginning with its roots in antiquity, through the Middle Ages and renaissance, and on to the work of Newton and Leibniz. The course emphasizes learning, analyzing, and practicing methods and techniques of the important ideas of modern calculus, including methods of tangents, areas, general solutions, the infamous "calculus wars", and the fast and furious development during the eighteenth and nineteenth centuries.

MHF 4302. Mathematical Logic I (3). Prerequisite: MGF 3301 or instructor permission. This course covers propositional and predicate logic, models, as well as Godel's completeness theorem and related theorems.

MTG 4212. College Geometry (3). Prerequisites: MAC 2312 and MAS 3105. This course examines fundamental topics in geometry from an advanced viewpoint, primarily designed for teachers and prospective teachers of mathematics.

MTG 4302. Elementary Topology I (3). Prerequisite: MAC 2313 and prior experience with mathematical proofs (MGF 3301, MAD 2104 or other proving experience). This course examines topological spaces, metric spaces, connectedness, compactness, separation properties, topology of the plane, and product spaces.

MTG 4303. Elementary Topology II (3). Prerequisite: MTG 4302. This course examines function spaces, Hilbert space, quotient spaces, continua, paracompactness and metrizability, nets and filters, and the fundamental group.

MTG 4934r. Topics in Topology or Geometry (1–3). Prerequisite: Instructor permission. Special topics course. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

Graduate Courses

MAA 5306. Advanced Calculus I (3).
MAA 5307. Advanced Calculus II (3).
MAA 5406. Theory of Functions of a Complex Variable I (3).
MAA 5407. Theory of Functions of a Complex Variable II (3).
MAA 5616. Measure and Integration I (3).
MAA 5617. Measure and Integration II (3).
MAA 5932r. Topics in Analysis (1–3).
MAD 5305. Graph Theory (3).
MAD 5306. Graph Theory and Networks (3).
MAD 5403. Foundations of Computational Mathematics I (3).
MAD 5404. Foundations of Computational Mathematics II (3).
MAD 5420. Numerical Optimization (3).
MAD 5427. Numerical Optimal Control of Partial Differential Equations (3).
MAD 5738. Numerical Solution of Partial Differential Equations I (3).
MAD 5739. Numerical Solution of Partial Differential Equations II (3).
MAD 5745. Spectral Methods for Partial Differential Equations (3).
MAD 5932r. Topics in Computational Mathematics (1–3).
MAP 5107. Mathematical Modeling (3).
MAP 5165. Methods of Applied Mathematics I (3).
MAP 5177. Actuarial Models (3).
MAP 5178. Advanced Actuarial Models, Credibility, and Simulation (3).
MAP 5207. Optimization (3).
MAP 5217. Calculus of Variations (3).
MAP 5345. Elementary Partial Differential Equations I (3).
MAP 5346. Elementary Partial Differential Equations II (3).
MAP 5395. Finite Element Methods (3).
MAP 5423. Complex Variables, Asymptotic Expansions, and Integral Transforms (3).
MAP 5431. Introduction to Fluid Dynamics (3).
MAP 5441. Perturbation Theory (3).
MAP 5486. Computational Methods in Biology (3).
MAP 5513. Wave Propagation Theory (3).
MAP 5601. Introduction to Financial Mathematics (3).
MAP 5611. Introduction to Computational Finance (3).
MAP 5615. Monte Carlo Methods in Financial Mathematics (3).
MAP 5932r. Topics in Applied Mathematics (1–3).
MAS 5307. Groups, Rings, and Vector Spaces I (3).
MAS 5308. Groups, Rings, and Vector Spaces II (3).
MAS 5311. Abstract Algebra I (3).
MAS 5312. Abstract Algebra II (3).
MAS 5731. Computer Algebra (3).
MAS 5932r. Topics in Algebra (1–3).
MAT 5907r. Directed Individual Study (1–4). (S/U grade only.)
MAT 5911r. Supervised Research (1–5). (S/U grade only.)
MAT 5921r. Graduate Mathematics Colloquium (1). (S/U grade only.)
MAT 5932r. Selected Advanced Topics (1–3).
MAT 5933r. Special Topics in Mathematics (1– 3). (S/U grade only.)
MAT 5939. Graduate Seminar (1).
MAT 5941. Internship in College Teaching (1–3). (S/U grade only.)
MAT 5945r. Graduate Professional Internship (1–3). (S/U grade only.)
MAT 5946r. Supervised Teaching (1–5). (S/U grade only.)
MHF 5206. Foundations of Mathematics (3).
MHF 5306. Mathematical Logic I (3).
MTG 5326. Topology I (3).
MTG 5327. Topology II (3).
MTG 5346. Algebraic Topology I (3).
MTG 5347. Algebraic Topology II (3).
MTG 5376r. Topological Structures I (3).
MTG 5932r. Topics in Geometry (1–3).

OCP 5256. Fluid Dynamics: Geophysical Applications (3).
MAA 6416r. Advanced Topics in Analysis (3).
MAA 6939r. Advanced Seminar in Analysis (1). (S/U grade only.)
MAD 6408r. Advanced Topics in Numerical Analysis (3).
MAD 6939r. Advanced Seminar in Scientific Computing (1). (S/U grade only.)
MAP 6437r. Advanced Topics in Applied Mathematics (3).
MAP 6621. Financial Engineering I (3).
MAP 6939r. Advanced Seminar in Applied Mathematics (1). (S/U grade only.)
MAS 6939r. Advanced Seminar in Algebra (1). (S/U grade only.)
MAT 6908r. Directed Individual Study (1–4). (S/U grade only.)
MAT 6932r. Advanced Topics in Mathematics (1–3).
MAT 6933r. Selected Advanced Topics (1–3). (S/U grade only.)
MAT 6939r. Advanced Graduate Seminar (1). (S/U grade only.)
MTG 6396r. Advanced Topics in Topology (3).
MTG 6939r. Advanced Seminar in Topology (1). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of MECHANICAL ENGINEERING

FAMU–FSU College of Engineering

Website: *http://www.eng.famu.fsu.edu/me/*
Interim Chair: Eric Hellstrom; **Professors:** Alvi, Cattafesta, Cooley, Gibson, Hellstrom, Kalu, Larbalestier, Oates, J. Ordòñez, Shih; **Associate Professors:** Clark, Guo, Hollis, Hruda, Kametani, Krick, Kumar, Moore; **Assistant Professors:** Hubicki, Nair, Shoele, Yaghoobian; **Teaching Faculty:** Akcayoglu (Panama City), Ali, Campbell, Dunlap (Panama City), Larson, McConomy, C. Ordòñez, Traynham (Panama City); **Adjunct Faculty:** Vanderlaan**; Affiliated Faculty:** Hussaini, Kopriva, Tam; **Research Faculty:** Vahab, Gustavsson, Sellappan; **Professors Emeriti:** Buzyna, Cartes, Krothapalli, Luongo, Van Dommelen, Van Sciver

The Bachelor of Science (BS) program in the Department of Mechanical Engineering is designed to provide background for a wide variety of careers. The discipline of mechanical engineering is very broad, but generally emphasizes an appropriate mix of thermal science, mechanics and materials, dynamic systems, and design. Graduates typically enter various energy, aerospace, and product manufacturing industries, or government laboratories.

The undergraduate program is designed to impart a broad knowledge in basic and engineering sciences and to provide a solid understanding of contemporary engineering practices. The program also seeks to provide students with a foundation in communications skills, principles of economics, and other fundamentals upon which they will draw in their professional careers. Special emphasis is placed on communications skills by requiring extensive written laboratory reports and design project presentations. Computer literacy is bolstered by a variety of course assignments throughout the program and especially in the design courses, wherein students are exposed to a number of design software programs widely used in the engineering industry.

Beyond the basic core curriculum, the Mechanical Engineering courses are grouped into five major area streams: thermal and fluid systems, mechanical systems, mechanics and materials, dynamic systems, and engineering design. The courses in each of these areas give students a foundation in the relevant engineering sciences with a strong orientation in design and extensive laboratory experience. The design curriculum culminates with a one-year (two-semester) capstone design course in which the students design and implement a full system or product, usually under industrial sponsorship.

Several undergraduate teaching laboratories provide extensive experimental apparatus for laboratory courses. The fluid mechanics laboratory, heat transfer laboratory, solid mechanics laboratory, dynamic systems laboratory, and controls and robotics laboratory are all well equipped with the latest tools and equipment for experimentation, data acquisition, post processing, and analysis. The College of Engineering provides several computer labs running a variety of standard design and analysis software packages, including Algor FEA modules, PTC's Pro/Engineer and Pro/Mechanica, ADAMS, and MathWorks' MATLAB.

Program Educational Objectives

Consistent with the missions of Florida State University, Florida A&M University, and the College of Engineering, and in accordance with the Accreditation Board for Engineering and Technology (ABET) criteria, the department has developed the following program educational objectives. We expect our graduates in the first five years upon graduation from our program to:

- make career progress in industrial, research, or graduate work in mechanical engineering or allied fields
- design and analyze devices, products, or processes that meet the needs of an employer, organization, or customer, based on sound scientific knowledge and engineering practices
- become engineering professionals by engaging in professional activities and continuous self-development
- function in multicultural and multidisciplinary environments across regional and national borders

Program Outcomes

After completing the mechanical engineering program, graduates should have the following attributes:

- an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics;
- an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors;

- an ability to communicate effectively with a range of audiences;
- an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and social contexts;
- an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;
- an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions;
- an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in mechanical engineering satisfy this requirement by earning a grade of "C–" or higher in EML 3002L.

Upper Division Writing (UDW)

Undergraduate majors in mechanical engineering satisfy the Upper Division Writing (UDW) requirement by earning a grade of "C–" or higher in EML 3012C.

Scholarship in Practice (SIP) and Oral Communication Competency Requirement (OCCR)

Undergraduate majors in mechanical engineering satisfy both the Scholarship in Practice (SIP) and Oral Communication Competency requirements by earning a grade of "C" or higher in both EML 4551C and EML 4552C.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

1. MAC X311 or MAC X281
2. MAC X312 or MAC X282
3. MAC X313 or MAC X283
4. MAP X302 or MAP X305
5. CHM X045/X045L or CHM X045C, or CHS X440/X440L, or CHSX440 and CHMX045L
6. PHY X048/X048L or PHY X048C, or PHY X043 and PHY X048L, or PHYX041 and PHYX048L
7. PHY X049/X049L or PHY X049C, or PHY X044 and PHY X049L, or PHYX042 and PHYX049L

Core Program

A candidate for the Bachelor of Science (BS) in mechanical engineering is required to successfully complete the following engineering core courses (in addition to the mechanical engineering curriculum):

CHM 1045 General Chemistry I (3)
CHM 1045L General Chemistry I Laboratory (1)
COP 3014 Programming I (3)
EEL 3003 Introduction to Electrical Engineering (3)
EGN 1004L First Year Engineering Laboratory (1)
MAC 2311 Calculus with Analytical Geometry I (4)
MAC 2312 Calculus with Analytical Geometry II (4)
MAC 2313 Calculus with Analytical Geometry III (5)
MAP 3305 Engineering Mathematics I (3) or MAP 2302 Ordinary Differential Equations (3)
PHY 2048C General Physics A (5)
PHY 2049C General Physics B (5)

Students must earn a minimum grade in the "C" range in each of the college core courses, as well as the required and technical elective courses below. Students must meet the minimum overall grade point average (GPA) under the general requirements of the University. Students also must meet the prerequisite requirements specified by the College of Engineering. Please refer to the "College of Engineering" chapter in this *General Bulletin* for the specific college-level requirements.

Students are urged to obtain the most current information on the mechanical engineering requirements from their advisors or from the student affairs coordinator.

Mechanical Engineering Curriculum

Key features of the curriculum in mechanical engineering include the integration of relevant topical material, integration of engineering design with engineering science, the introduction to engineering design at an early stage in the curriculum, and the use of cooperative learning methodologies. The curriculum is in keeping with current trends in engineering education, industry expectations and needs, and the ABET 2003 accreditation guidelines.

The following core courses comprise the mechanical engineering curriculum:

EML 3002 Mechanical Engineering Tools (2)
EML 3002L Mechanical Engineering Tools Lab (3)
EML 3004 Introduction to Mechanical Engineering (3)
EML 3011C Mechanics and Materials I (4)
EML 3012C Mechanics and Materials II (3)
EML 3013C Dynamic Systems I (4)
EML 3014C Dynamic Systems II (3)
EML 3015C Thermal-Fluids I (4)
EML 3016C Thermal-Fluids II (4)
EML 3017C Mechanical Systems I (4)
EML 3018C Mechanical Systems II (4)
EML 3234 Materials Science and Engineering (3)
EML 3811 Mechatronics I (2)
EML 4304L Experiments in Thermal and Fluid Sciences (3)
EML 4550 Engineering Design Methods (3)
EML 4551C Senior Design Project I (3)
EML 4552C Senior Design Project II (3)
XXX XXXX Math Option (3)
XXX XXXX Technical Electives (12)

Technical electives are generally intended to develop depth in an area of interest and should form a coherent area of concentration. A minimum of three technical electives (nine semester hours) must be in Mechanical Engineering. All technical elective courses must be selected from the approved list of suitable technical elective courses posted on the Departmental Web site.

The math option is intended to provide additional math expertise oriented toward various areas of engineering. Students must choose from the following list of approved classes: MAP 3306 or STA 3032, Alternates: MAD 3401, MAD 3703, MAP 4341, or MAS 3105.

EML 3004 includes a math/physics test based on the material covered in Calculus I, Calculus II, and Physics I. Students may take this test at any time before or during their enrollment in EML 3004.

Honors in the Major

The Department of Mechanical Engineering offers a program in honors in mechanical engineering to encourage talented juniors and seniors to undertake independent and original research as a part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Combined BS/MS Pathway

The department offers a five-year combined bachelor's/master's pathway leading to the Bachelor of Science (BS) and Master of Science (MS) degrees. The objective of this pathway is to produce, in five years of full-time study, an engineer who is fully qualified to enter into professional practice in industry. Students begin taking core graduate courses in their fourth year. Successful completion of the fourth year of the five-year curriculum will give the student enough credit and breadth of subject matter to satisfy university requirements

for the BS degree, should individual circumstances arise that preclude a student from taking the fifth year. This pathway also includes a Summer internship in industry between the fourth and fifth years.

Admission to the combined BS/MS pathway is open to juniors who have attained a GPA of 3.2 in the mechanical engineering curriculum and whose applications are reviewed by a faculty committee. Applicants are normally invited in the Spring, during the second semester of the students' junior year, for Fall entry. Details on the curriculum may be obtained from the Mechanical Engineering Department Office.

Definition of Prefixes

EAS—Aerospace Engineering
EGM—Engineering Science
EGN—Engineering: General
EMA—Materials Engineering
EML—Engineering: Mechanical

Undergraduate Courses

EAS 4101. Fundamentals of Aerodynamics (3). Prerequisites: EML 3015C and EML 3016C. This course is a technical elective course designed for senior-level engineering students in the Aeronautics Track and area of thermal and fluid sciences. The course includes fundamental fluid mechanics and aerodynamic principles in the design of airfoil and aircraft wings, and provides a comprehensive review concerning applications, technological advances, and social impacts on the development of a modern flight vehicle. The course provides an overview of the guiding principles and experimental observations to analyze basic aerodynamic characteristics of an aircraft configuration.

EGM 3512. Engineering Mechanics (4). Prerequisites: MAC 2312 and PHY 2048. Corequisite: MAC 2313. This course covers statics and dynamics of particles and rigid bodies. Topics include free-body diagrams, couples, resultants, equilibrium of particles and rigid bodies in two and three dimensions, and forces in trusses, frames, and machines. Other topics include centroids, centers of mass, internal shear forces and bending moments in beams, shear and moment diagrams, friction, area moments of inertia, parallel axis theorem, work/energy, as well as impulse and momentum methods.

EGN 3454. Numerical Methods for Mechanical Engineers (3). Prerequisites: MAC 2313 and MAP 2302. Miscellaneous requirement: Understanding of linear algebra. This course teaches programming and numerical methods to solve engineering/scientific problems in an effective and efficient manner to meet the needs of industry, government, and academia. The course leverages the use of MATLAB which is widely used for scientific computing. Students develop practical programming skills. The course relies heavily on in-class programming to provide feedback to students.

EMA 4225. Mechanical Metallurgy (3). Prerequisite: EML 3012C. This course focuses on tensile instability, crystallography, theory of dislocations, plasticity, hardening mechanisms, creep and fracture, electron microscopy, composite materials.

EMA 4501. Electron Microscopy (3). Prerequisite: EML 3234 or instructor permission. This course covers fundamentals and techniques of electron microscopy as applied to the determination of physical, chemical, and structural properties of materials and materials behavior in practice.

EMA 4813. Computational Material Physics (3). Prerequisite: Junior or Senior standing and instructor permission. This course covers numerical simulation techniques for predicting various physical properties of conventional materials, nanomaterials, and biomaterials. Students use computational material physics tools (molecular dynamics, Monte Carlo, Brownian dynamics, density functional theory, etc.) to understand, predict, and design new materials and to guide experimental studies at the atomistic level.

EML 3002. Mechanical Engineering Tools (2). Prerequisites: MAC 2311 and PHY 2048C. Corequisite: EML 3002L. This course is an introduction to thermal-fluid engineering necessary to understand the principles of operation of the engine built and modeled in the laboratory course.

EML 3002L. Mechanical Engineering Tools Lab (3). Prerequisites: MAC 2311 and PHY 2048C. Corequisite: EML 3002. This course covers computer aided design and drafting, programming, machining, and a basic introduction to the mechanical engineering profession and ethics. Course includes building and testing a simple Stirling engine. Course is subject to an additional materials fee.

EML 3004. Introduction to Mechanical Engineering (3). Prerequisites: MAC 2312 and PHY 2048C. This course covers the application of calculus and physics to engineering problems, statics, and a basic introduction to engineering design and analysis.

EML 3011C. Mechanics and Materials I (4). Prerequisites: CHM 1045, CHM 1045L, EML 3002, EML 3004, and MAC 2313. This course is the first part of a two-part sequence, integrating concepts of mechanics and principles of materials. It provides the student with a broad based introduction to and understanding of the application of materials in structural design, the processing of mechanical components, and the manufacture of high technology products.

EML 3012C. Mechanics and Materials II (3). Prerequisites: EML 3011C and PHY 2049C. Corequisite: EML 3234. This course is the second part of a two-part sequence, integrating mechanics and principles of materials science. Emphasis is on measurement techniques and experimental methods in solid mechanics and materials science. Topics covered include tensile, impact, torsion, fatigue and combined loading; beams in bending; structures of steel; and other concepts learned in mechanics of materials and materials science. This course also gives the students an insight into technical report writing techniques.

EML 3013C. Dynamic Systems I (4). Prerequisites: EML 3002 and EML 3004. Corequisite: MAP 3305 or MAP 2302. This course is the first part of an integrated sequence in dynamics, vibrations, and controls. Material in this first course includes the following: absolute and relative motion of particles and rigid bodies in inertial, translating, and rotating coordinate frames; derivation and computer solution of differential equations of motion; single degree of freedom vibrations and elementary feedback control.

EML 3014C. Dynamic Systems II (3). Prerequisite: EML 3013C. This course is the second part of an integrated sequence in dynamics, vibrations, and controls. Material in this second course includes the development of the equations of motion for translational and rotational mechanical systems, electrical systems, and electromechanical systems; system response using standard differential equation solution techniques and Laplace transforms; frequency response and impedances; linearization of nonlinear system models; and block diagrams and feedback control strategies.

EML 3015C. Thermal-Fluids I (4). Prerequisites: EML 3011C, EML 3013C and MAC 2313. This course is the first of a two-part sequence presenting an integrated treatment of traditional topics on thermodynamics, fluid mechanics, and heat transfer. The essential role of each of these related elements and their connections is examined in the context of real-world systems. Materials covered include: first and second laws of thermodynamics; power and refrigeration cycles; heat transfer modes including steady and time dependent conduction, convection, and radiation; fluid statics; mass momentum and energy conservation; Bernoulli's equation; internal and external flows.

EML 3016C. Thermal-Fluids II (4). Prerequisite: EML 3015C. Corequisite: EML 4304L. This course is the second of a two-part sequence presenting an integrated treatment of traditional topics on thermodynamics, fluid mechanics, and heat transfer. The essential role of each of these related elements and their connections is examined in the context of real-world systems.

EML 3017C. Mechanical Systems I (4). Prerequisites: EML 3011C, EML 3013C, and MAP 3305 or MAP 2302. This course is the first in a sequence of two courses intended to provide the essential tools for the design and analysis of mechanical systems. Emphasis is on linkages; constraints and degrees of freedom; position, velocity, and acceleration analysis; cams, gears, and gear trains, static and dynamic analysis; computer simulations and models of components and systems; team class projects involving dissection of existing machines and design and manufacture of new mechanical systems.

EML 3018C. Mechanical Systems II (4). Prerequisite: EML 3017C. Corequisite: EML 3012C. This course is the second in a sequence of two courses intended to provide the essential tools for the design and analysis of mechanical systems. Emphasis is on materials; stress analysis; shaft design; bearings and lubrication; fasteners and connectors; joints; clutches, brakes, couplings, and flywheels; flexible elements; shafts; computer simulations and models of components and systems; team class projects involving dissection of existing machines and design and manufacture of new mechanical systems.

EML 3100. Thermodynamics (2). Prerequisites: CHM 1045, MAC 2312, and PHY 2048. This course discusses the fundamentals of thermodynamics. System description, common properties. Properties of pure substances. Mathematical foundations. First and Second Laws of Thermodynamics, closed and open systems. Equations of state and general thermodynamic relations. For non-mechanical engineering majors.

EML 3234. Materials Science and Engineering (3). Prerequisite: CHM 1045 and PHY 2048C. Corequisite: EML 3004. This course includes concepts of materials science and their relevance to engineering design. Recent advances in engineering materials science.

EML 3811. Mechatronics I (2). Prerequisites MAC 2312 and PHY 2049. This course is an introduction to Mechatronics through lab experience of interfacing mechanical and electrical systems. Focus is on embedded controllers (Motorola HCS12) and their programming, power and interfacing, electronics, actuators, sensors, and integration of these components to create a complete functional mechatronic system. Instruction and practical exercises are in: microcontroller programming; interfacing microcomputers with sensors and actuators; hybrid (analog/digital) design; digital logic and analog circuitry; data acquisition and control; microcomputer architecture, assembly language programming; signal conditioning, filters, analog-to-digital and digital-to-analog conversion.

EML 4161. Cryogenics (3). Prerequisites: EML 3015C, EML 3106C, and EML 3234. Miscellaneous requirement: EML 4512 and PHY 3101 are recommended. This course focuses on the fundamental aspects of cryogenic system engineering: properties of materials and fluids at low temperatures; cryogenic heat transfer and fluid dynamics; low temperature refrigeration and system engineering.

EML 4288. Vehicle Design (3). Prerequisites: EML 3014C and EML 3018C. This introductory course in vehicle design emphasizes vehicle dynamics. Content covers the primary performance related features of vehicle design (suspension, steering, chassis, and tires). Using the latest industry-standard software, the course examines various design parameters that influence vehicle performance and handling.

EML 4304L. Experiments in Thermal and Fluid Sciences (3). Prerequisites: EML 3012C and EML 3015C. Corequisite: EML 3016C. This engineering laboratory explores measurements in fluid and thermal applications, including basic concepts for design of experiments, measurement devices, and their performance characteristics; measurement of fluid and thermal properties, pressure, velocity, and temperature; calibration procedures; experiments in fluid flow and heat transfer; design of engineering experimental systems; laboratory work, report writing.

EML 4312. Design and Analysis of Control Systems (3). Prerequisite: EML 3014C. This course focuses on mathematical modeling of continuous physical systems. Frequency and time domain analysis and design of control systems. State variable representations of physical systems.

EML 4316. Advanced Design and Analysis of Control Systems (3). Prerequisite: EML 4312. This course emphasizes design of advanced control systems (using time and frequency domains). Implementation of control systems using continuous (operational amplifier) or digital (microprocessor) techniques are addressed and practiced.

EML 4321. Manufacturing Processes Control (3). Prerequisites: EML 3234 and EML 3012C. Corequisite: EML 4312. This course introduces essential knowledge in the control of manufacturing systems and processes.

EML 4421. Fundamentals of Propulsion Systems (3). Prerequisite: EML 3016C. This course is an analysis of the performance of propulsion systems using fundamental principles of thermodynamics, heat transfer, and fluid mechanics. Systems studied include turbojet, turbofan, ramjet engines, as well as piston type internal combustion (IC) engines.

EML 4450. Energy Conversion Systems for Sustainability (3). Prerequisites: EML 3016C and senior standing in engineering. This course presents the challenge of changing the global energy system so it addresses reducing dependence on finite fossil energy sources and moving to environmentally sustainable energy sources. The emphasis is on greenhouse gas emissions-free energy production strategies, including renewable energy sources such as solar, wind and biomass. Topics include photovoltaic cells, fuel cells, and thermoelectric systems.

EML 4452. Sustainable Power Generation. (3). Prerequisites: EML 4450 or EML 5451. This course is a continuation of energy-conversion systems for sustainability and focuses on solar electricity, biopower, biofuels, and hydrogen as energy media. The course also explores whether hydrogen-based transportation is a practical option.

EML 4501. Machine Design (3). Prerequisite: EML 3018C. This course focuses on the design of mechanical systems and the components needed for their operation. Emphasis is placed on fasteners and connectors; joints; clutches and brakes; couplings and flywheels; flexible elements; shafts; machine dynamics; computer simulations and models of components and systems; team class projects involving the design and manufacture of mechanical systems.

EML 4512. Thermal-Fluid Design (3). Prerequisite: EML 3016C. This course is intended to develop the student's awareness and understanding of the relationship between fluid mechanics, thermodynamics, and heat transfer in consideration of design. Emphasis is placed upon energy systems components such as heat-exchangers, piping networks, and pumps. Includes a student project.

EML 4524. Design and Modeling for Manufacturing Processes (3). Prerequisites: EML 3012C and EML 3018C. This course provides descriptive and analytical representation of manufacturing processes and production equipment. Students also discuss manufacturing process automation and discrete time simulation.

EML 4536. Design Using FEM (3). Prerequisite: EML 3018C. This course explores the Finite Method - what it is; elementary FEM theory; structures and elements; trusses, beams, and frames; two-dimensional solids; three-dimensional solids; axisymmetric solids; thin-walled structures; static and dynamic problems; available hardware and software; basic steps in FEM analysis; pre/post processing; interpretation of results; advanced modeling techniques; design optimization; advanced materials using FEM.

EML 4542. Materials Selection in Design (3). Prerequisites: EML 3012C and senior standing in mechanical engineering. This course examines the selection and application of materials predicated on material science and engineering case studies covering most engineering applications.

EML 4550. Engineering Design Methods (3). Prerequisites: EML 3002L and EML 3004. This course is a formal lecture component of the mechanical engineering 'capstone' senior design course project. The course covers the product design cycle from problem identification and need assessment, to specification, concept generation and selection, preliminary design, materials selection, and final design. The design process is placed in context by presenting topics such as legal and ethical issues, product reliability and liability considerations, engineering economics, and optimal design.

EML 4551C. Senior Design Project I (3). Prerequisites: EML 3012C, EML 3014C, EML 3016C, EML 3018C, and EML 4550. This course is the first in a two-part course sequence presenting an integrated system design approach for engineering product realization. Course blends the perspectives of market research and planning, design cycle, project management and teamwork, and technical reporting. This is the 'capstone' course for mechanical engineering students. This course offers weekly sessions in which teams are coached during the different phases of the project, plus frequent and extensive design reviews. This course is structured to closely resemble 'on the job' engineering education.

EML 4552C. Senior Design Project II (3). Prerequisite: EML 4551C. This is the second in a two-part course sequence presenting an integrated system design approach for engineering product realization. The course blends the perspectives of market research and planning, design cycle, project management and teamwork, and technical reporting. The course structure closely resembles 'on-the-job' engineering education. This is the capstone course for Mechanical Engineering students.

EML 4711. Introduction to Gas Dynamics (3). Prerequisite: EML 3016C. This course is a thorough one-dimensional treatment of compressible flows and applications to nozzle, diffuser, sound waves, tunnel, and shock tube flows.

EML 4800. Introduction to Robotics (3). Prerequisite: EML 3014C. This course explores the basic elements of a robot, robot actuators, and servo control; sensors, senses, vision, and voice; microprocessor system design and computers; kinematic equations; motion trajectories.

EML 4804. Mechatronics II (3).Prerequisite: EML 3811. This course focuses on developing greater competence in the application of electromechanical components to solve engineering problems and build 'smart' systems. The course focuses on the design interplay between electrical and mechanical systems. Students use microprocessors, circuits, sensors, and actuators in both labs and projects to develop multi-purpose electromechanical devices. The course provides instruction and practical exercises in: programming, electronics, signal conditioning, communication protocols, mechanical design, prototyping techniques, and system integration.

EML 4830. Introduction to Mobile Robotics (3). Prerequisite: Instructor permission. This course covers the following topics: analytical dynamic modeling and dynamic simulation of mobile robots; mobile robot sensors; basic computer vision methods; Kalman filtering and mobile robot localization; basic mapping concepts; path planning and obstacle avoidance; intelligent control architectures.

EML 4841. Bio/Robotic Locomotion (3). Prerequisite: EML 3014C, or instructor permission. This course introduces the fundamental concepts for biological and robotic locomotion with limbs. Muscular-skeletal biomechanics for vertebrate and invertebrate animals are briefly reviewed including an overview of the function of muscles. Morphology, gaits, posture, and the effect of scale on legged locomotion are discussed. The history of legged robots is reviewed. Reduced-order dynamic models of walking and running are introduced. Techniques for analyzing the stability of these periodic hybrid-dynamic systems are covered. The course includes the development and analysis of simulation and hardware platforms of locomotion systems.

EML 4905r. Directed Individual Study (1–3). Prerequisites: Junior standing and a "B" average in mechanical engineering courses. May be repeated to a maximum of twelve semester hours.

EML 4930r. Special Topics in Mechanical Engineering (1–4). Prerequisite: Instructor permission. This course explores topics in mechanical engineering with emphasis on recent developments. Content and credit varies. May be repeated within the same term to a maximum of twelve semester hours.

EML 4945r. Practical Work in Mechanical Engineering (1–3). (S/U grade only.) Prerequisite: Advisor permission. May be repeated to a maximum of three semester hours.

EML 4970r. Honors Work (3). Prerequisite: Acceptance into honors program. This course includes participation in a supervised research project and the production of a thesis describing the results of that work. May be repeated to a maximum of six required semester hours.

Graduate Courses

EAS 5102. Fundamentals of Aerodynamics (3).
EGM 5444. Advanced Dynamics (3).
EGM 5611. Introduction to Continuum Mechanics (3).
EGM 5612. Solid Mechanics and Electromagnetics of Continuous Media (3).
EGM 5810. Viscous Fluid Flows (3).
EGM 6845. Turbulent Flows (3).
EMA 5226. Mechanical Metallurgy (3).
EMA 5514. Electron Microscopy (3).
EMA 5814. Computational Material Physics (3).
EML 5045. Manufacturing Processes Control (3).
EML 5060. Analysis in Mechanical Engineering (3).
EML 5061. Analysis in Mechanical Engineering II (3).
EML 5072. Applied Superconductivity (3).
EML 5103. Advanced Engineering Thermodynamics (3).
EML 5152. Fundamentals of Heat Transfer (3).
EML 5155. Convective Heat and Mass Transfer (3).
EML 5162. Cryogenics (3).
EML 5311. Design and Analysis of Control Systems (3).
EML 5317. Advanced Design and Analysis of Control Systems (3).
EML 5361. Multivariable Control (3).
EML 5422. Fundamentals of Propulsions Systems (3).
EML 5451. Energy Conversion Systems for Sustainability (3).
EML 5453. Sustainable Power Generation (3).
EML 5525. Design and Modeling for Manufacturing Processes (3).
EML 5537. Design Using FEM (3).
EML 5543. Materials Selection in Design (3).
EML 5709. Fluid Mechanic Principles with Selected Applications (3).
EML 5710. Introduction to Gas Dynamics (3).

EML 5725. Introduction to Computational Fluid Dynamics (3).
EML 5802. Introduction to Robotics (3).
EML 5803. Mechatronics II (3).
EML 5831. Introduction to Mobile Robotics (3).
EML 5832. Bio/Robotic Locomotion (3).
EML 5905r. Directed Individual Study (1–9). (S/U grade only.)
EML 5910r. Supervised Research (1–5). (S/U grade only.)
EML 5930r. Special Topics in Mechanical Engineering (1–6).
EML 5935r. Mechanical Engineering Seminars (0). (S/U grade only.)
EML 5946. Professional Internship Experience in Mechanical Engineering (4).
EML 5971r. Master's Thesis Research (1-12). (S/U grade only.)
EML 6365. Robust Control (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MEDICINE
Undergraduate Programs

College of Medicine

Website: *http://med.fsu.edu/*
Department of Biomedical Sciences-Chair: Richard Nowakowski; **Professors:** Blaber, Delp, Diaz, Galasko, Hajcak, Hurt, Joyce, Kabbaj, Laywell, Levenson, Nowakowski, Olcese, Overton, Ren, Stefanovic, Suo, Y.Wang; **Associate Professors:** Arbeitman, Bienkiewicz, Gunjan, Horabin, Kumar, Leadem, C. Lee, Meckes, Megraw, Pinto, Stanwood, Zhou; **Assistant Professors:** Irianto, Rizkallah, Tomko, X. Wang Y. Wang; **Eminent Scholar:** Bhide; **Research Faculty I:** Duclot, Graham, Kao, Nemec, Pritchard, Rodriguez, Zhang; **Research Faculty II:** McCarthy, X. Wang, Zorio; **Assistants in Medicine:** Bradley, Connolly, Wu; **Associates in Research:** Foster, Vied, Y. Yang; **Senior Research Associate:** Didier, Mercer
Department of Clinical Sciences-Chair: Jonathan Appelbaum; **Professors:** Alexandraki, Applebaum, Douglas, Kroker-Bode, Lomax-Homier, Maitland, Meek, O'Keefe, Sandroni, Watson, Wetherby, Wiese-Rometsch; **Associate Professors:** Bush, Danforth, Khajavi, Rahangdale, Stavros, Sweeney, Todd; **Assistant Professor:** Norton; **Research Faculty I:** Daly, Holland, C. Nottke, Walton-Walker; **Department of Family Medicine and Rural Health-Chair:** Joedrecka Brown Speights; **Professors:** Brown, Dunn, Fogarty, Harrison, Littles, McLeod, Speights, Van Durme; **Associate Professors:** Alexander, R. Campbell, Gitu, Myers, Quintero, Zedaker; **Assistant Professors:** Fleischer, Flowers, Gadson, Hellgren, Hogans-Mathews, LaJoie, Speights, Welch; **Instructional Specialist II:** Taite; **Assistant in Medicine:** De Leon; **Department of Geriatrics-Chair:** Paul Katz; **Professors:** Gloth, Granville, Katz, Pomidor, Terracciano; **Associate Professors:** Agens, Suchak; **Assistant Professors:** Kinsell, Mazumder, Mulrooney, Nowakowski, Wagner; **Associate in Research:** Baker; **Department of Behavioral Sciences and Social Medicine-Chair:** Leslie Beitsch; **Professors:** Beitsch, Flynn, Glueckauf, Harman, Naar, Reyes, Rust; **Associate Professors:** Ennis, Gabriel, Gerend, Hayes, Howren, Jean-Pierre, Nair-Collins, Painter, Pickett, Rosado, Sutin, Turner; **Assistant Professors:** Blackburn, Carretta, Dark, Goldfarb, Martinez-Hyde, McQuirt, Mesidor, Porter, Saunders; **Senior Research Associate:** Aubrey; **Assistant in Research:** Geletko; **Research Faculty I:** Luchetti, Mitchell, Sheffler; **Faculty Administrator:** Leeds; **M. Smith School of Physician Assistant Practice Associate Dean:** James Zedaker; **Faculty:** Bastin, Bennet Wilke, Cole, M. Johnson, Morgan, Nuccio, Pragle, B. Smith, Taylor

The Florida State University College of Medicine, in partnership with local communities, provides a four-year program of study leading to the Doctor of Medicine (MD) degree. The college is fully accredited by the Liaison Committee on Medical Education of the Association of American Medical Colleges and the American Medical Association. The mission of the College of Medicine is to educate and develop exemplary physicians who practice patient-centered health care, who discover and advance knowledge, and who are responsive to community needs, especially through service to elder, rural, and other medically underserved populations.

For complete details of degree requirements, plus a description of the college and its services, refer to the "College of Medicine" chapter of this *General Bulletin*.

Definition of Prefixes

BCC—Basic Clinical Clerkships
BMS—Basic Medical Sciences
ENT—Entrepreneurship
IDH—Interdisciplinary Honors
IHS—Interdisciplinary Health Sciences
MDE—Medical Electives
MDU—Undergraduate Medicine Courses
PAS—Physician Assistant
PSB—Psychobiology

Undergraduate Courses

BMS 4007. Introduction to Molecular Medicine (4). Prerequisites: CHM 2210 and CHM 2211, or CHM 3217 and CHM 3217L; and PCB 3134 or PCB 3063. This course introduces the concept of the main molecular mechanisms that mediate human health and disease and emphasizes molecular cell biology and immunology to understand human health and diseases, and the mechanisms that impact immune response such as inflammation and cancer. Students also participate in active learning, applying the knowledge they acquire in the lectures.

BMS 4901r. DIS in Biomedical Sciences (1–4). Prerequisite: Instructor permission. Corequisite: Must have a combined GPA of 3.0 in biology, chemistry, and physics coursework. This directed individual study course in biomedical sciences offers a unique opportunity for undergraduate students to perform research in the biomedical laboratories in the College of Medicine. Students perform special supervised study or research in the area of the faculty member's research. An oral presentation and a final report of the research in the format of a short scientific publication is required. May be repeated to a maximum of fifteen semester hours.

BMS 4903r. Honors Work in Biomedical Sciences (1–3). Prerequisite: Admission to the FSU Honors in the Major Program and approved by the IMS Honors Liaison. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours. A maximum of nine research credit hours may count toward IMS degree upper division electives. This may be a combination of DIS and/or Honors Work. DIS and Honors Work in the Interdisciplinary Medical Sciences Program are letter graded.

BMS 4906r. Honors Work in Clinical Sciences (1–3). Prerequisite: Admission to the FSU Honors in the Major Program and approved by the IMS Honors Liaison. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours. A maximum of nine research credit hours may count toward IMS degree upper division electives. This may be a combination of DIS and/or Honors Work. DIS and Honors Work in the Interdisciplinary Medical Sciences Program are letter graded.

BMS 4932r. Special Topics in Biomedical Sciences (1–3). Prerequisites: BSC 2011, CHM 1046, and PCB 3063; or instructor permission. This course teaches students to identify the intersection of the fields of biology and medicine with a focus on human health issues and demonstrate knowledge in areas such as biochemical functions, physiological functions, anatomical and histological structures, epidemiology of population groups, or pharmacology applications by delving into related cell and molecular biology, parasitology, and toxicology, found in biomedical research. May be repeated within the same term up to nine semester hours.

IDH 2351. An Apple a Day: Natural Science Honors Seminar (3). This seminar course is structured as a lecture and discussion of current topics in medicine. This is an interactive course in which students are expected to prepare for and participate actively with guests, faculty, and fellow students.

IHS 4120. Frontiers in Medicine (3). This course aims to provide undergraduate students the opportunity to gain an understanding of common human disease conditions through a highly interactive set of learning activities. We recommend that students have taken physiology, genetics and biochemistry. Examples of topics covered include heart failure, cancer, diabetes, depression and Alzheimer's disease.

IHS 4123. Narrative Medicine (3). Prerequisites: ENC 1101 and ENC 1102; or ENC 2135; or English courses for a total of six credit hours in which the student is required to demonstrate college-level English skills through multiple assignments. In this course, students learn the tenets of narrative medicine and explore the role of narrative in improving clinician understanding of the individual patient's unique experience. To build narrative skill, students analyze and interpret various illness experiences as depicted in select stories, poems, and non-fiction medical narratives. Students also expand their understanding of narrative medicine and what it means to practice patient-centered care through various analytical and reflective writing assignments.

IHS 4900. Honors Work in Health Sciences (1–3). Prerequisite: Admission to the FSU Honors in the Major Program and approval by the IMS Honors Liaison. This course involves participation in a supervised research problem. May be repeated to a maximum of nine semester hours. A maximum of nine research credit hours may count toward IMS degree upper division electives. This may be a combination of DIS and/or Honors Work. DIS and Honors Work in the Interdisciplinary Medical Sciences Program are letter graded.

IHS 4904r. Directed Individual Study in Health Sciences (1–4). Prerequisite: Instructor permission. Corequisite: Must have an overall 3.0 GPA. This course is for undergraduate students who wish an individualized research experience in the Medical Humanities and Social Sciences, Public Health, or other fields represented in the College of Medicine. Students receive training in research methods and improve their readiness for and appreciation of research in health-related science. May be repeated to a maximum of fifteen semester hours.

IHS 4932r. Special Topics in Health Sciences and Health Care (1–3). This course provides students instruction in the health sciences such as healthcare disparity, patient-centered care, and other topics necessary to understand the healthcare system and patient care issues.

IHS 4943. Medical Interpreter Practicum (9). (S/U grade only.) Prerequisites: ADV 3410, BMS 4861, SPC 4710, SPN 4420, and SPN 4930. This course is a supervised internship at a College of Medicine clinical site. Students work with healthcare providers providing translation services between patients and healthcare providers.

MDU 1000. Careers in Medicine: Preparation to Practice (1). (S/U grade only.) This course is intended for all undergraduates who are seriously considering a career in medicine. Students learn how to successfully prepare for the academic, personal, and professional rigors of medical school and for a career in medicine. Students are encouraged to take this course early in their undergraduate years, so they can pursue the appropriate academic coursework, volunteer, and earn medical experience that will help them become successful medical school applicants and health professionals.

PAS 2054r. Introduction to the PA Profession (3). This course explores the history and development of the physician assistant profession. Students develop a thorough understanding of the PA's role within the healthcare system and the important role they play on the healthcare system.

Graduate Courses

BCC 7112. Internal Medicine (6).
BCC 7113. Internal Medicine Sub-Internship (4).
BCC 7130. Obstetrics/Gynecology Clerkship (6).
BCC 7140. Pediatrics Clerkship (6).
BCC 7150. Psychiatry Clerkship (6).
BCC 7160. Surgery Clerkship (6).
BCC 7170. Community Medicine (2). (P\F grade only.)
BCC 7174. Primary Care Geriatrics (4).
BCC 7175. Clerkship in Family Medicine (6).
BCC 7176. Family Medicine Sub-Internship (4).
BCC 7180. Emergency Medicine (4).
BCC 7182. Doctoring 3 (6).
BCC 7201. Residency Preparation Boot Camp (4).
BMS 6030r. Foundations Medicine 2: Molecules to Mechanisms (5–10). (P/F grade only.)
BMS 6037r. Medicine I: Foundations (10–13). (P/F grade only.)
BMS 6040r. Medicine 3 Human Systems in Health and Disease: Gastrointestinal System (6–8). (P/F grade only.)
BMS 6041r. Medicine 3 Human Systems in Health and Disease: Host-Defense (6–10). (P/F grade only.)
BMS 6042r. Medicine 3 Human Systems in Health and Disease: Cardiovascular and Pulmonary Systems (10–12). (P/F grade only.)
BMS 6043r. Medicine 3 Human Systems in Health and Disease: Renal-Urinary System (8–10). (P/F grade only.)
BMS 6044r. Medicine 3 Human Systems in Health and Disease: Hematologic System (4–6). (P/F grade only.)
BMS 6045r. Medicine 3 Human Systems in Health and Disease: Autonomic Nervous System, Endocrine, and Reproductive Systems (8–10). (P/F grade only.)
BMS 6046Cr. Medicine 3 Human Systems in Health and Disease: Neuroscience: CNS and Behavior (10–12). (P/F grade only.)
BMS 6047r. Medicine 3 Human Systems in Health and Disease: Musculoskeletal and Integumentary Systems (4–6). (P/F grade only.)
BMS 6060. Health Issues in Medicine II (2). (P/F grade only.)
BMS 6204. Medical Biochemistry and Genetics (5). (P/F grade only.)
BMS 6301. Medical Microbiology 201 (3). (P/F grade only.)
BMS 6302. Medical Microbiology 202 (2). (P/F grade only.)
BMS 6401. Medical Pharmacology 201 (3). (P/F grade only.)
BMS 6402. Medical Pharmacology 202 (4). (P/F grade only.)
BMS 6511. Organ Physiology (6). (P/F grade only.)
BMS 6601. Pathology 201 (6). (P/F grade only.)
BMS 6602. Pathology 202 (7). (P/F grade only.)
BMS 6706C. Clinical Neuroscience (6). (P/F grade only.)
BMS 6800r. Medicine 4: Integrated Cases (12–14). (P/F grade only.)
BMS 6801Cr. Medicine 5: Preclerkship Preparation Boot Camp (8–10). (P/F grade only.)
BMS 6821. Medicine and Behavior I (2). (P/F grade only.)
BMS 6822. Medicine and Behavior II (2). (P/F grade only.)
BMS 6831. Doctoring 201 (7). (P/F grade only.)
BMS 6832. Doctoring 202 (7). (P/F grade only.)
BMS 6930r. Special Topics in Medicine (2). (P/F grade only.)
BMS 6940. Internship/Practicum/Clinical Practice (1). (P/F grade only.)
BMS 6960r. USMLE Step 1 Preparation (1–6). (P/F grade only.)
ENT 5627. Healthcare Innovation and Medical Entrepreneurship (3).
GMS 5146r. The Immune Response to Infection and Cancer (3).
GMS 5700. Developmental Neuroscience (3).
GMS 5905r. Directed Individual Study (1–3). (S/U grade only.)
IHS 5905r. Directed Individual Study in Health Science (1–12). (S/U grade only.)
MDE 6041r. Elementary Medical Spanish I (1). (P/F grade only.)
MDE 6042. Medical Spanish II (2). (P/F grade only.)
MDE 7012. Mind-Body Health (0).

MDE 7058r. Creativity and Medicine (2-4).
MDE 7106r. Achieving Health Equity-Health Disparities Local and Global (2–4).
MDE 7126r. Student Health Elective (2–4).
MDE 7572r. Hand Surgery Elective (2–4).
MDE 7642r. Bariatric Surgery Elective (4).
MDE 7645r. Surgical Oncology Elective (4).
MDE 7812. Neuropsychology (2).
PAS 5000C. Patient Assessment I (3).
PAS 5006. Patient Assessment II (3).
PAS 5010. Clinical Medicine I (3).
PAS 5013. Evidence Based Practice (1).
PAS 5020r. Clinical Medicine II (3).
PAS 5022r. Clinical Gross and Radiographic Anatomy (6).
PAS 5025. Foundations of Clinical Physiology (2).
PAS 5028. Systemic Physiology and Pathophysiology I (3).
PAS 5029. Systemic Physiology and Pathophysiology II (3).
PAS 5030. Clinical Medicine III (3).
PAS 5034r. Clinical Medicine IV (3).
PAS 5045. Integrated Clinical Science (3).
PAS 5050. Essentials of PA Practice (2).
PAS 5056. US Healthcare Systems and Policy (2).
PAS 5071. Clinical Pharmacology I (2).
PAS 5072. Clinical Pharmacology II (2).
PAS 5073. Clinical Pharmacology III (2).
PAS 5074. Clinical Pharmacology IV (1).
PAS 5110L. Health Promotion and Disease Prevention (2).
PAS 5127. Behavioral and Mental Health (2).
PAS 5254. Foundations of Clinical Nutrition (1).
PAS 6007. Clinical Procedures (2).
PAS 6053. Professional Development (1).
PAS 6097. Evidence-Based Research I (2).
PAS 6098. Evidence-Based Research II (1).
PAS 6099. Evidence-Based Research III (1).
PAS 6190. Internal Medicine Clerkship (5).
PAS 6200. General Surgery (2).
PAS 6291. General Surgery Clerkship (5).
PAS 6303. Pediatric Medicine (2).
PAS 6390. Pediatric Medicine Clerkship (5).
PAS 6490. Family Medicine Clerkship (6).
PAS 6491. Geriatric Medicine Clerkship (3).
PAS 6492r. Behavioral and Mental Health Clerkship (5).
PAS 6505. Women's Health (2).
PAS 6591. Women's Health Clerkship (5).
PAS 6605. Emergency Medicine (3).
PAS 6876r. Emergency Medicine Clerkship (3).
PAS 6941. Transition to Clinical Practice (4).
PAS 6945. Elective Clerkship (3).
PSB 5347. Molecular Neuropharmacology (3).

Fourth Year Electives

In the fourth year of study, the College of Medicine offers a wide variety of electives to help students develop skills in their specific areas of study and practice. Electives are available in the fields of family medicine, geriatrics, internal medicine, obstetrics/gynecology, pediatrics, psychiatry, surgery, and others. For a complete and current list of fourth year electives, please visit our Web site at *http://med.fsu.edu/*.

MICROBIOLOGY:
see Biological Science

Undergraduate Program in MIDDLE EASTERN STUDIES

College of Arts and Sciences

Website: *http://mec.fsu.edu/*
Director and Advisor: Zeina Schlenoff (Modern Languages and Linguistics, *DIF 342*)
Assistant Director and Advisor: Zafer Lababidi (Modern Languages and Linguistics, *DIF 337*)
Coordinating Committee: Schlenoff (Chair, Modern Languages), Lababidi (Modern Languages), Liebeskind (History), Levenson (Religion), Gaiser (Religion), Hanley (History), Pullen (Classics), Özok-Gündoğan (History)

The Departments of Anthropology, Art History, Classics, History, International Affairs, Modern Languages and Linguistics, Public Administration, Religion, and Urban and Regional Planning offer an interdisciplinary major and minor in Middle Eastern Studies at the undergraduate level. The program is designed for: (1) general liberal arts students who wish to learn more about the Middle East; (2) students who wish to pursue graduate work in this field; and (3) students who seek employment in or relating to the Middle East. The Middle East Center, housed in the Department of Modern Languages and Linguistics, administers the major. A Bachelor of Arts (BA) in Middle Eastern Studies responds directly to a national and regional demand for resources and information to educate students, professionals, and the surrounding community about this important region of the world. An increasing number of jobs are available nationally and throughout the world for those with expertise in the Middle East and its languages.

For more information, please refer to *http://mec.fsu.edu/*.

Admission

Students must complete fifty-two semester hours with an adjusted GPA of 2.0 on all University coursework and have completed at least half the required liberal studies hours or an AA degree.

Requirements for a Major in Middle Eastern Studies

Students majoring in Middle Eastern studies are to construct their study program, in consultation with an advisor, around three components in addition to the University requirement for liberal studies and electives. A total of fifty-four semester hours beyond the liberal studies requirement is required. A list of approved courses is available with the program advisors or online at *http://mec.fsu.edu*.

Major Components for a BA in Middle Eastern Studies

1. **Major requirement.** Students are to take a minimum of thirty-six semester hours from among those area-specific upper level courses listed for their major track. The hours should be distributed among at least three departments participating in the program.
2. **Middle East Survey requirement.** Students are required to take Middle East Research: An Interdisciplinary Seminar (ASH 3230), a three semester hour course.
3. **Language requirement.** Fifteen semester hours of coursework are required in a relevant area language (Arabic, Hebrew, or any other Middle Eastern language that might be offered on campus in the future). The hours must be focused upon one specific language.

Students are encouraged to bring their chosen language up to an effective level of proficiency in both reading and speaking by either taking additional coursework on the FSU campus or by participating in a semester or Summer abroad program in their relevant cultural area as such programs are available. To encourage the achievement of language proficiency, language coursework hours taken beyond the fourth semester of foreign language requirement may be counted toward the required thirty-six hours for the major. A separate minor is not currently required for the Middle Eastern studies major, as a secondary area of major coursework constitutes a collateral minor. A minimum of twenty-one hours have to be taken at Florida State University.

State of Florida Common Program Prerequisites

The state of Florida has not identified common program prerequisites for this University degree program; however, students are encouraged to take lower level introductory courses in some of the related disciplines (e.g., culture/history courses relating to the Middle East) and to begin study in Arabic or Hebrew earlier so that they might be able to leave the program with the highest level of proficiency possible in their chosen language.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Middle Eastern studies satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or EME 2040.

Minor in Middle Eastern Studies

The Middle Eastern studies minor is concerned with the cultures of the Middle East from ancient times to the present. Utilizing the resources of a number of departments and programs, it allows the student to study the region from an interdisciplinary perspective. The minor can provide a Middle East focus for work in another discipline, can build a foundation necessary for advanced degrees in Middle Eastern studies, and can enable those planning to work in the region to gain a fuller understanding of its cultures.

Requirements for a Minor in Middle Eastern Studies

The minor will consist of fifteen semester hours and must include intermediate-level (2000 level) competence in Hebrew (biblical or modern), Arabic, or another Middle Eastern language approved by the committee. No more than eight semester hours of language courses may be counted toward the minor. No course taken for the minor may be used to fulfill any University language requirement. The remaining required hours must come either from the courses listed below or be approved by the coordinating committee. A minimum of seven to nine hours have to be taken at Florida State University.

Core Courses

Note: Course descriptions can be found in the chapter corresponding to the department in which each course is taught.

Anthropology

ANT 4175 Archaeology of the Islamic World (3)

Art History

ARH 4118 Archaeology of Ancient Egypt (3)
ARH 4173r Studies in Classical Art and Archaeology (3)
ARH 4210 Early Christian and Byzantine Art (3)
ARH 4571 Islamic Art and Architecture, 7th-21st Centuries (3)

Classics

ASH 3200 History of the Ancient Near East (3)
CLT 3378 Ancient Mythology, East and West (3)

Criminology and Criminal Justice

CCJ 3661 Terrorism and Violence (3)

English

LIT 4652 Middle Eastern Literature and Translation (3)

Geography

GEA 4635 Geography of the Middle East (3)

History

AFH 4302 Northern African History: A Survey (3)
ASH 1044 Middle Eastern History and Civilization (3)
ASH 3200 History of the Ancient Near East (3)
ASH 3230r Middle East Research: An Interdisciplinary Seminar (3–6)
Note: ASH 3230 is a required course for all students majoring in Middle Eastern studies.
ASH 4223 Modern Middle East (3)
ASH 4261 Central Asia Since the Mongols (3)

Modern Languages

ABT 3520r Arab Culture and Civilization (3)
ARA 1120 Elementary Arabic I (4)
ARA 1121 Elementary Arabic II (4)
ARA 2220 Intermediate Arabic (4)
ARA 2240 Intermediate Conversation (3)
ARA 3222 Mid-Intermediate Arabic (3)
ARA 3300 Advanced Arabic I (3)
ARA 4421 Media Arabic (3)
ARA 4905r Directed Individual Study (3)
ARA 4970r Honors Thesis (1–6)
FOL 3930r Experiments in Modern Language (3)
Note: The required topic is: Topics in Arabic (3)
HBR 1120 Elementary Modern Hebrew I (4)
HBR 1121 Elementary Modern Hebrew II (4)
HBR 2220 Intermediate Modern Hebrew (4)
IDS 3450 Through an Arabic Lens: The Intersection of Film and Culture (3)

Political Science

CPO 3403 Comparative Government and Politics: The Middle East (3)
INR 3084 Terror and Politics (3)
INR 4274 Studies in International Politics: The Middle East (3)

Public Administration and Policy

PAD 4374 Introduction to Terrorism: Preparedness and Response (3)
PAD 4375 Advanced Topics in Terrorism (3)

Religion

HBR 1102 Beginning Hebrew I (4)
HBR 1103 Beginning Hebrew II (4)
HBR 2222 Intermediate Hebrew (4)
IDS 2420 Heretics, Rebels and Militants in the Islamic World (3)
REL 2210 Introduction to the Old Testament (3)
REL 2240 Introduction to the New Testament (3)
REL 3209 Dead Sea Scrolls (3)
REL 3224 The Hebrew Prophets (3)
REL 3363 The Islamic Tradition (3)
REL 3367 Islamic Traditions II: Islam up to the Modern World (3)
REL 3607 The Jewish Tradition (3)
REL 4214 The Book of Genesis: Literacy and Historical Approaches (3)
REL 4215 Judaism in the Graeco-Roman World (3)
REL 4203r Readings in Classical Hebrew Texts (1–3)
REL 4323 Religions of the Graeco-Roman World (3)
REL 4366 Seminar on Shi'ite Islam (3)
REL 4393 Islam in North America (3)
REL 4510 Christianity after the New Testament (3)
REL 4511 Christianity in Late Antiquity (3)

Women's Studies

WST 4930 Topics in Women's Studies (3)
Note: The required topic is: Women and Gender in Africa or the Middle East (3)

Related Courses

Note: The following courses require an advisor's approval.

Art History

ARH 3800r Methods of Art Criticism (3)
ARH 4151 Art and Archaeology of the Early Roman Empire (3)

Classics

CLA 4437r Studies in Greek History (3)
Note: The required topic is Hellenistic Greek.
CLA 4930 Special Topics in Classics (3–9)
CLT 4372r Studies in Ancient Mythology (3)
EUH 4408 The Age of Alexander the Great (3)

English

ENG 3310 Film Genres (3)
ENG 4905 Directed Individual Study (1–3)
Note: The required topic is: Critical Theory of Globalization (1–3)
LIT 4205 Literature of Human Rights (3)
LIT 4233 Anglophone Postcolonial Literature (3)
LIT 4514 Postcolonial Literatures and Feminisms (3)

Geography

GEA 3563 The Mediterranean (3)

History

ASH 3930r Studies in Asian History (3)
HIS 4930r Special Topics in History (3)

Humanities

HUM 2944r University Honors Colloquium (1) (S/U grade only.)
Note: The required topic is: the Middle East (3)
HUM 3930r Humanities: Special Topics (1–3)

Music

MUS 3934 Special Topics in Music (1–3)
Note: The required topic is: Music of the Middle East (3)

Political Science

INR 3004 Geography, History and International Relations (3)
INR 3933r Special Topics in International Relations (3)
INR 4075 International Human Rights (3)
INR 4078 Confronting Human Rights Violations (3)
INR 4083 International Conflict (3)

Religion

REL 3145 Gender and Religion (3)
REL 3171r Topics in Ethics (3)
REL 3293r Topics in Biblical Studies (3)
REL 3636r Special Topics in Religion (3)
REL 4190r Undergraduate Religion and Culture Seminar (3)
REL 4290r Undergraduate Biblical Studies Seminar (3)
REL 4304 Undergraduate History of Religions Seminar (3)
REL 4491r Undergraduate Religious Thought Seminar (3)

Urban and Regional Planning

URP 4936 Special Topics in Urban and Regional Planning (3)
Note: The required topic is: Gender and Development in Africa or the Middle East (3)

Undergraduate Department of MILITARY SCIENCE

College of Arts and Sciences

Website: *https://armyrotc.fsu.edu/*
Professor: Lieutenant Colonel Keith E. Pruett

The military science department's Reserve Officers Training Corps (ROTC) program of instruction qualifies the student for a commission in the United States Army, Army National Guard, or United States Army Reserve. The curriculum does not provide technical training in a job specialty, nor does it emphasize vocational training; rather, it complements and provides a base for normal progression in the commissioned officers' educational program.

Leadership and management objectives are included in academic periods of instruction. Practical leadership experience is gained in a field training environment by attendance at a thirty-seven-day summer camp, normally between the junior and senior years. Nursing students attend a nursing internship at Army hospitals following summer camp. A leadership laboratory also provides experience in a range of leadership positions during the school year. The department offers both a four-year and a two-year program, each with its own special advantages. Students are invited to visit or write the Department of Military Science to obtain additional information.

Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Core Program

The program requires four years of military science courses, which consist of a two-year basic course and a two-year advanced course. Students can begin the four-year program as a freshman or as a sophomore.

There is also a two-year ROTC program for those students with only two years of college remaining. The two-year course is designed for junior college and other non-ROTC college transfer students, but may be utilized by students who did not enroll in the basic course outlined below. Graduate students may also qualify for enrollment in the two-year course. Additional information regarding eligibility requirements for the two-year program may be obtained by contacting the Department of Military Science.

Women are encouraged to enroll and will be commissioned as officers in the United States Army upon completion of the ROTC curriculum. Job opportunities for women in the Army are the same as those for men.

Basic Course

The basic course is normally taken as an elective subject by students in their freshman and sophomore years. The purpose of this instruction is to qualify students for entry into the advanced course by familiarizing them with the organization of the Army, military skills, and military tradition. Students do not incur any military obligation as a result of enrolling in the basic course. Enrollment in ROTC requires proof of a doctor's physical screening. Participation in regularly scheduled physical training is required. In addition to classroom instruction, a one and a half hour leadership laboratory period is required each week.

Advanced Course

Instruction in the advanced course includes leadership and management, the exercise of command, military teaching methods, tactics, logistics, administration, history, and military justice. Leadership experience and command experience are provided by assigning advanced course students as cadet officers and noncommissioned officers. Participation in regularly scheduled physical training is a required part of the leadership training. Classroom instruction consists of two one and a quarter hour (seventy-five minutes) periods and a one and a half hour (ninety minutes) leadership laboratory period each week. Only students who have demonstrated a definite potential for becoming competent officers will be selected for the advanced course.

Professional Military Education

In addition to basic and advanced ROTC courses, cadets must complete professional military education requirements consisting of one course in each of the following areas: written and oral communication skills, American military history, and computer literacy. Students should consult with the professor of military science to determine those University courses suitable for fulfilling these requirements.

Monetary Allowances

Students selected for contracting as Army ROTC cadets qualify for a nontaxable monetary allowance of $420 per month. Cadets may also qualify for the simultaneous membership program with the United States Army Reserve or National Guard, which can provide up to $16,000 during the last two years of school. Both the United States Army Reserve and the National Guard offer additional monetary incentives for cadets who join their organizations.

Army ROTC College Scholarship Program

Financial assistance is available in the form of two-, three-, or four-year ROTC academic scholarships for selected students. Under the Army ROTC Scholarship Program, students/cadets receive reimbursement for their tuition and fees, or a room and board reimbursement of $5,000 per semester. Additionally, Army scholarship recipients receive a flat-rate allowance of $1,200 per year for textbooks and other expenses, and a $420 per month stipend for up to ten months per year. During the thirty-seven-day advanced course summer training between the junior and senior years, Army ROTC also pays attending cadets a stipend and travel pay. There are also numerous national and organizational scholarships that students may compete for as members of Army ROTC.

Textbooks and Uniforms

All textbooks, uniforms, items of insignia, and equipment incident to membership in the Army ROTC Program are furnished by the Department of Military Science.

Minor in Military Science

A minor in military science is offered and may be selected by students with the approval of their major department and the Department of Military Science. Requirement for a minor is twelve semester hours of upper division coursework.

Special Activities

Throughout cadets' courses in ROTC, they will have the opportunity to join and participate in a number of military affiliated organizations and activities, both on a voluntary and a selective basis. The **Seminole Guard** is a voluntary organization that functions as a military unit participating in military ceremonies and presenting the national colors at civic events. Cadets have the opportunity to qualify for and compete with cadets from other universities and colleges in a series of military events termed **Ranger Challenge**.

Awards and Decorations

Awards and decorations made available by national organizations, Florida State University, and local and national military organizations are presented to both basic and advanced officer course cadets each year. These plaques, trophies, medals, and ribbons symbolize superior achievement in Army ROTC and other University academic courses, and outstanding campus and cadet corps leadership.

Prerequisites for Admission to the Professional Officer Course

1. Be at least seventeen years of age at time of acceptance;
2. Be able to complete the professional officer course and graduate from Florida State University prior to reaching the age of thirty at the time of commissioning (upper age limit can be waived);
3. Selection by the professor of military science and acceptance by the University;
4. Execute a written agreement with the government to complete the professional officer course and accept an Army ROTC commission;
5. Enlist in the Army Reserve Component-ROTC (terminated upon receiving an Army officer commission).

Those students enrolled in the four-year Army ROTC program must complete the basic course or its equivalent or have acceptable prior military service. Veterans and students with previous ROTC training are invited to write, visit, or call the Department of Military Science at *(850) 644-8806* or *(850) 644-1016* to discuss their eligibility status.

Students desiring entry into the two-year Army ROTC program should contact the Department of Military Science at the beginning of the Fall semester one academic year prior to the Fall semester in which they wish to enroll in the professional officer course. This lead time is required to complete the application and a physical examination prior to enrollment in the professional officer course.

Leadership Laboratory

Leadership laboratory is open to students who are members of the Reserve Officer Training Corps or who are eligible to pursue a commission as determined by the professor of military science. Leadership laboratory is the formalized phase of leadership training conducted by the cadets. It is scheduled for one and one half hours (ninety minutes) each week for both the basic and advanced officer courses (non-contracted and contracted). All uniforms and equipment required for cadet activities are furnished.

Definition of Prefix

MSL—Military Science and Leadership

Undergraduate Courses

MSL 1001. Foundations of Officership (1). Corequisite: MSL 1001L. This course examines unique duties and responsibilities of officers, organization and role of the Army. Topics include fitness and communication, Army values and expected ethical behavior.

MSL 1002. Basic Leadership (1). Corequisite: MSL 1002L. This course includes topics such as fundamental leadership concepts and doctrine, basic skills underlying effective problem solving, and the officer experience.

MSL 2101. Individual Leadership Studies (2). Corequisite: MSL 2101L. This course develops knowledge of self, self-confidence, individual leadership skills, problem solving and critical thinking skills, as well as communication, feedback, and conflict resolution skills.

MSL 2102. Leadership and Teamwork (2). Corequisite: MSL 2102L. This course focuses on self-development, while incorporating the individual's knowledge of self, understanding of group processes, current beliefs, and skills.

MSL 2940. Basic Field Internship (4). Prerequisites: Must pass the Army Physical Fitness Test (APFT) and have earned at least fifty-four semester hours at FSU with a 2.0 GPA. This course consists of an intensive internship conducted at Fort Knox, Kentucky, for four weeks. Designed as an alternative to meet requirements for entrance into the upper division of Military Science for students who have not completed introductory level coursework.

MSL 3201. Leadership and Problem Solving (3). Prerequisites: MSL 1001, MSL 1002, MSL 2101, MSL 2102, or instructor permission. Corequisite: MSL 3201L. This course examines skills that underlie effective problem solving. Students plan military missions and operations, and execute squad battle drills.

MSL 3202. Leadership and Ethics (3). Prerequisites: MSL 1001, MSL 1002, MSL 2101, MSL 2102, or instructor permission. Corequisite: MSL 3202L. This course focuses on topics such as leadership responsibilities that foster an ethical command climate and develop cadet leadership competencies. Students apply principles and techniques of effective written and oral communication.

MSL 4301. Leadership and Management (3). Prerequisite: MSL 3202 or instructor permission. Corequisite: MSL 4301L. This course allows students to discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, and apply leadership and problem solving principles to a complex case study/simulation.

MSL 4302. Officership (3). Prerequisites: MSL 3202, MSL 4301, or instructor permission. Corequisite: MSL 4302L. This capstone course explores topics relevant to second lieutenants entering the Army, including legal aspects of decision making and leadership, as well as Army organization from the tactical to the strategic level.

MSL 4900r. Directed Individual Study (3). Prerequisite: Permission from a military-science professor. This course includes special supervised study/research with a professor of military science dealing with emphasis on current issues relating to the profession of arms and national defense. May be repeated to a maximum of six semester hours.

Undergraduate Department of MODERN LANGUAGES AND LINGUISTICS

College of Arts and Sciences

Website: *http://modlang.fsu.edu/*

Chair: Reinier Leushuis; **Professors:** Boutin, Fernandez, Galeano, Leushuis, Munro, Pietralunga, Poey, Sunderman; **Associate Professors:** Álvarez, Cappuccio, Efimov, Gomariz, Gonzalez, Howard, Lan, Lee, Leeser, Maier-Katkin, Muntendam, Reglero, Romanchuk, Soldat-Jaffe, Valisa, Wakamiya, Wang, C. Weber, Zanini-Cordi; **Assistant Professors:** Bumatay, Coggeshall, Goldmark, Hulstyn, Joos, Mewhinney, Murray-Román, Qian, Stilerman, D. Weber; **Teaching Faculty I:** Gutierrez, Malo; **Teaching Faculty II:** Brudenell, Lababidi, Prantil, Prosper; **Teaching Faculty III:** Brandl, Feng, Osborn, Schlenoff; **Postdoctoral Fellows:** Bhattacharya, Citko, Colón, Toymentsev

The Department of Modern Languages and Linguistics provides instruction in Arabic, Chinese, French, German, Hebrew, Italian, Japanese, Portuguese, Russian, and Spanish languages, with an emphasis throughout on cultural communication. Several courses in linguistics are offered, in addition to English-language courses in Arabic, Brazilian, Chinese, French and Francophone, German, Hispanic, Italian, Japanese, Russian, and Turkish film; in Hispanic, Italian, Japanese, Russian, Slavic, and Turkish cultures; in Russian and Slavic folklore; and in Chinese, French, German, Italian, Japanese, Russian, and Latin American literature in translation. The department offers a wide range of Liberal Studies (including E-Series) courses that may, in some cases, be accepted for major or minor credit (see individual course descriptions).

All students who intend to continue study of a language at Florida State University in which they have had previous experience (such as high school study or study abroad) must be placed into the appropriate course by the Department of Modern Languages. Students in French, German, and Spanish who continue with the same language must take the placement test before they enroll in a course in the department. Students in other languages must consult the department for the appropriate placement procedures before enrolling.

Degrees Offered

Bachelor of Arts (BA) degrees are offered in East Asian Languages and Cultures (Chinese and Japanese), French, German, Italian, Middle Eastern Studies, Russian, and Spanish. All major programs, except for languages with a concentration in business and Middle Eastern Studies will also require a minor degree. Undergraduate minors are offered in Arabic Studies, Chinese, French, German, Hebrew, Italian, Japanese, Linguistics, Portuguese, Russian, Spanish, Strategic European Languages and Cultures (SELC), and World Literature/World Film.

Graduate programs leading to the Master of Arts degree are available in French, German, Italian Studies, Slavic Languages and Literatures (emphasis on Russian), and Spanish (emphasis on Literary and Cultural Studies or Linguistics). Programs leading to the Doctor of Philosophy degree are offered with French or Spanish as the major field of concentration. For information on graduate programs, refer to the *Graduate Bulletin*.

Winthrop-King Institute for Contemporary French and Francophone Studies

The Winthrop-King Institute for Contemporary French and Francophone Studies was created as a result of a generous bequest from the late Mrs. Ada Belle Winthrop-King. It is a center for interdisciplinary scholarship focusing on developments in France and the wider French-speaking world dating approximately from the French Revolution to the present, with a particular emphasis on contemporary issues. The institute offers a wide range of study abroad scholarships for students. Strongly interdisciplinary in outlook, the Institute brings together faculty from a variety of departments at Florida State and from universities throughout the world. It hosts leading scholars, artists, and public figures and sponsors a wide range of lectures, film screenings, conferences, and other events addressing key social, cultural, and political issues in France and other French-speaking regions.

Scholarships Offered

Ada Belle Winthrop-King Scholarships are offered on a competitive basis each year for language majors and minors in Arabic, Chinese, French, German, Italian, Japanese, Portuguese, Russian, and Spanish. For further information, please contact the Winthrop-King Institute at *(850) 644-7636.*

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer com-

petency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in modern languages and linguistics satisfy this requirement by earning a grade of "C–" or higher in HUM 2831, CGS 2060, CGS 2100, or other University-approved computer competency course.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

East Asian Languages (Chinese and Japanese)

CHI X220 / JPN X220: coursework in the language for six to twelve credit hours; students must demonstrate proficiency by testing or completion of a foreign language through the intermediate level. Which language is chosen depends upon the track/focus of the student.

French

FRE X220: coursework in the language for six to twelve credit hours; students must demonstrate proficiency by testing or completion of the foreign language through the intermediate level.

German

GER X220: coursework in the language for six to twelve credit hours; students must demonstrate proficiency by testing or completion of the foreign language through the intermediate level.

Italian

ITA X220: coursework in the language for six to twelve credit hours; students must demonstrate proficiency by testing or completion of the foreign language through the intermediate level.

Russian

RUS X220: coursework in the language for six to twelve credit hours; students must demonstrate proficiency by testing or completion of the foreign language through the intermediate level.

Spanish

SPN X220: coursework in the language for six to twelve credit hours; students must demonstrate proficiency by testing or completion of the foreign language through the intermediate level.

College Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Note: The department reserves the right to reassign or drop students who are enrolled in a course for which they have not taken the required prerequisites or one that does not correspond to their linguistic abilities.

Honors in the Major

The Department of Modern Languages and Linguistics offers a program in honors in the major to encourage talented seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Major in a Language with Concentration in Business

A major in Chinese, French, German, Italian, Japanese, Spanish, or Russian with a concentration in business may be selected. The program consists of twenty-one semester hours in the language beyond the language requirement plus fifteen approved semester hours of core business courses and twelve approved semester hours in a specialized track of marketing, management, or finance in the College of Business. Students declaring a French major with a concentration in business may take one single French course taught in English with written work done in English to satisfy the requirements of the major. For students declaring Spanish major with a concentration in business, linguistics (LIN) courses will not count for major credit. A major in Chinese or Japanese with a concentration in business requires eighteen semester hours of the selected language numbered above the 2220 level, plus twenty-seven hours in the business track. Of the twenty-seven hours, at least twelve approved semester hours must be taken of core business coursework, and at least nine approved semester hours in a specialized track of marketing, management, or finance. A maximum of six semester hours of CHI/JPN 3000-level courses in Business Chinese or Business Japanese may be substituted for required business courses in the twelve hour specialized track. No minor is required with a concentration in business. Students should consult with their language advisor for a list of appropriate courses. Students majoring in both Business and Language/Business should refer to the requirements below, under "Double Major".

Co-Major in Modern Languages and Linguistics

The department offers an interdepartmental program in which students may choose approved co-majors from the following programs: French, German, Italian, Russian, and Spanish. The co-major consists of twenty-one semester hours numbered above 1999 in each of two programs selected. Students declaring a French co-major may take one single French course taught in English with written work done in English to satisfy the requirements of the major. For students declaring a Spanish co-major, linguistics (LIN) courses may count for major credit. A co-major in Chinese and Japanese consists of fifteen semester hours of each language numbered above 2220, plus twelve semester hours of CHT/JPT 3000-level coursework in culture and literature. Of the combined thirty Chinese/Japanese language coursework, at least six semester hours must be taken from two 4000-level courses in one language and three semester hours from a 4000-level course in the other language. The student should consult with the Chinese and Japanese advisors to select appropriate courses. One 2000-level course in either language chosen for all co-majors must be used to satisfy the arts and sciences language requirement. The student should consult with an advisor in each language program to select courses. No minor is required.

Double Major

Students pursuing more than one major must meet the program requirement of both majors, with the following exceptions: (1) a maximum of six semester hours may overlap, i.e. they may be counted toward two separate majors; and (2) no minor is required. Students majoring in both Business and Language/Business are allowed double-counting of the five "core" courses, but are not allowed double-counting of any course in the selected specialized track.

Double Major in Modern Languages

A double major in two modern foreign languages may be approved in selected combinations. Please consult an advisor in each language for course advisement.

Requirements for a Major in Modern Languages and Linguistics

Note: A grade of "C–" or better must be earned in each course applied toward any major or minor degree earned in modern languages and linguistics. A grade of "C–" or better is required for students to advance to subsequent language levels. No courses may be taken on a satisfactory/unsatisfactory (S/U) basis except for language internships.

East Asian Languages and Cultures

The East Asian Languages and Cultures degree program offers five separate major tracks: Chinese language and culture (thirty hours), Japanese language and culture (thirty hours), co-major in Chinese and Japanese (forty-two hours), Chinese with a concentration in business (forty-five hours), and Japanese with a concentration in business (forty-five hours). The Chinese and Japanese language and culture majors require thirty semester hours numbered above 2220 including a minimum of six semester hours at the 4000 level. For the Chinese

major, a maximum of nine semester hours from 3000-level courses in Chinese culture and literature may count toward the thirty semester hour requirement. The Japanese major will allow a maximum of nine semester hours in Japanese culture and literature to count toward the thirty semester hour requirement. Coursework should be selected by consultation with the Chinese or Japanese advisor in the language area of choice. For further information on requirements, visit *http://modlang.fsu.edu/*.

French Major

Thirty semester hours numbered above 2999 are required, including two out of three from the series FRE 3501, FRW 3100, FRW 3101; FRE 3420, FRE 3421, FRE 3780 (or FRE 4410), FRE 4422; and three additional 4000-level courses (nine semester hours), at least two of which (six semester hours) must be in literatures, cultures, and/or societies of French expression. One 3000–4000 level French elective will complete the requirements. Students are also strongly advised to take the sequence FRW 3100–3101 concurrently with the grammar/composition sequence FRE 3420–3421. Any number of 3000-4000 level French courses taught in English with the written work done in French may count toward the major. Native speakers should register for courses numbered 3000 and above. Majors and minors are eligible for the Ada Belle Winthrop-King Summer Scholarships to Paris. For more information, please visit *http://www.modlang.fsu.edu/programs/french*.

German Major

Thirty semester hours numbered above 2999 are required, including GER 3400 and GER 3500. For students entering the major from GER 2220, GER 3400 is required to fulfill the composition component; students who enter with advanced proficiency take GER 4420. Students should consult with an advisor to ensure proper placement. Students should have a minimum of six semester hours of skills courses (e.g., GER 3310, GER 3400) and six semester hours of literature, film, and culture classes (e.g., GER 3500, GER 3930). A minimum of nine semester hours must be taken at the 4000 level. A maximum of six semester hours from among the following coursework may count toward the thirty semester hour requirement: GET 3130, GET 3524. For more information, please visit *http://www.modlang.fsu.edu/programs/german*.

Italian Major

Thirty semester hours numbered above 2220 are required, including ITA 2240, 3420, 3421, at least one 3000-level literature course in Italian (ITW 3100, 3101), and a minimum of twelve semester hours at the 4000 level. A maximum of six semester hours from among the following coursework may count toward the thirty semester hour requirement: ITT 3430, 3500, 3501, 3520, 3523r. For more information, please visit *https://modlang.fsu.edu/programs/italian/*.

Middle Eastern Studies Major

Students majoring in Middle Eastern studies are to construct their study program in consultation with an advisor, around three components in addition to the University requirement for liberal studies and electives. A total of fifty-four semester hours beyond the liberal studies requirement is required. A list of approved courses is available from the program advisors or online at *http://mec.fsu.edu*. For more information, please see the Middle Eastern Studies chapter of this *General Bulletin*.

Russian Major

Thirty semester hours numbered above 2220 are required, including RUS 2330, 3400, 3420, and at least twelve semester hours of Russian and Slavic coursework at the 4000 level or above. For more information, please visit *http://www.modlang.fsu.edu/programs/slavic-russian*.

Spanish Major

Thirty semester hours, distributed in the following manner, are required: fifteen semester hours of 3000-level courses including SPN 3300, SPN 3400; SPT 3503; one SPW 3000-level literature course; a departmental linguistics course (usually LIN 3041). Required at the 4000 level are fifteen semester hours in SPN or SPW courses, including at least one senior seminar (SPN 4540, SPN 4930, SPW 4930, or SPN 4700). Heritage speakers must take SPN 3350 plus one additional 3000- or 4000-level SPW, SPN, or SPT course (excluding SPN 3400) instead of the required SPN 3300 or SPN 3400. For more information, please visit *https://www.modlang.fsu.edu/programs/spanish*.

Minor for Modern Languages Majors

Twelve to fifteen semester hours in an approved departmental field are required. If a second foreign language is selected as the minor, the twelve to fifteen semester hours must be earned in courses numbered above 1999. All courses must be taken for a letter grade, and a minimum grade of "C–" must be earned for all courses taken for the minor.

Requirements for a Minor in Linguistics

The undergraduate minor requires twelve semester hours in linguistics. See specific course requirements listed under "Interdepartmental Linguistics Minors."

Note: Linguistics courses will NOT count toward both a minor in linguistics and a major in another language.

The graduate minor requires fifteen semester hours. See specific course requirements listed under "Interdepartmental Undergraduate and Graduate Minors."

Requirements for a Minor in Modern Languages and Linguistics

Twelve semester hours in linguistics or in any one of the following languages are required: French, German, Italian, or Russian numbered above 1999. The Chinese minor requires twelve semester hours in courses numbered above CHI 1121. Only one FRT course can count for the French minor. The Japanese minor requires twelve semester hours in courses numbered above JPN 1121. The Portuguese minor requires twelve semester hours in courses numbered above POR 1121. The Spanish minor requires fifteen semester hours numbered above 2220 including three hours in Spanish literature. Only one SPT course can count for the minor. **Credit extended in meeting the foreign language requirement for graduation may not be used in satisfying the minor.**

Requirements for a Minor in Arabic Studies

The minor requires twelve semester hours from Arabic language courses numbered above ARA 1121. No course taken for the minor may be used for any University language requirement. A list of approved courses may be obtained from the departmental undergraduate office, *364 DIF*. A minimum grade of "C" must be earned for all courses taken for the minor (no S/U grades will apply). Directed Individual Study (DIS) hours are not applicable to the minor without prior approval from the Arabic advisor.

Requirements for a Minor in Hebrew

The undergraduate minor in Hebrew consists of eighteen semester hours, at least fifteen of which must be Hebrew language courses. The remaining three hours may be in any other Semitic language (Arabic, Aramaic, and Syriac are currently taught at FSU). Students must demonstrate they have completed work in both Biblical and Modern Hebrew, reaching the Intermediate level in one. This will normally mean that they must take at least three hours of Biblical Hebrew and three hours of Modern Hebrew (note that these do not have to be taken as part of the minor). All courses in both Biblical and Modern Hebrew with a grade of "C–" or higher (no S/U grade will apply) can be counted toward the minor. No course counting toward any University language requirement may be counted for the minor. At least nine of the eighteen required hours must be taken at FSU. A list of approved courses may be obtained from the departmental undergraduate office, *364 DIF*.

Requirements for a Minor in Middle Eastern Studies

The Middle Eastern Studies minor is concerned with the cultures of the Middle East from ancient times to the present. Utilizing the resources of a number of departments and programs, it allows the student to study the region from an interdisciplinary perspective. The minor can provide a Middle East focus for work in another discipline, can build a foundation necessary for advanced degrees in Middle Eastern Studies, and can enable those planning to work in the region to gain a fuller understanding of its cultures. The minor consists of fifteen semester hours and must include intermediate-level (2000 level) competence in Arabic, Hebrew (biblical or modern), or another Middle Eastern language approved by the committee. No more than eight semester hours of language courses may be counted toward the minor. The remaining required hours must come from a list of approved courses that can be obtained from the departmental undergraduate office, 364 DIF. A minimum of seven to nine hours have to be taken at Florida State University. A list of approved courses is available from the program advisor or online at *http://mec.fsu.edu*. For more information, please see the Middle Eastern Studies chapter of this *General Bulletin*.

Requirements for a Minor in Strategic European Languages and Cultures (SELC)

The minor focuses on the languages and cultures of three historically and strategically linked regions that form an "arc" along the eastern edge of the EU: Russia and Ukraine, the Balkans, and Turkey. The minor consists of twelve approved semester hours taken in the Department of Modern Languages and Linguistics beyond liberal studies and major requirements. A list of approved courses may be obtained from the department undergraduate office, *364 DIF*

Requirements for a Minor in World Literature/World Film

The minor will consist of fifteen semester hours. The student may select five courses from any of the following: CHT 3123, CHT 3124, CHT 3391r, CHT 3392; FRT 3140, 3520r, 3561; GET 3130, 3524r; IDS 3450, IDS 3459; ITT 3430, 3523r; JPT 3391r; PRT 3391r; RUT 3110, 3523r; SPT 3130, 3391r. Courses taken for major credit in modern languages may not be counted toward this minor.

Definition of Prefixes

ABT—Arabic Culture in Translation or Translation Skills
ARA—Arabic Language
ASN—Asian Studies
CHI—Chinese
CHT—Chinese Culture in Translation or Translation Skills
FOL—Foreign Languages
FOT—Foreign Languages (In Translation)
FOW—Foreign Languages, Comparative Literature (Writings)
FRE—French Language
FRT—French Culture in Translation or Translation Skills
FRW—French Literature (Writings)
GER—German
GET—German Culture in Translation or Translation Skills
GEW—German Literature (Writings)
HBR—Modern Hebrew Language
HUM—Humanities
IDS—Interdisciplinary Studies
ITA—Italian Language
ITT—Italian Culture in Translation or Translation Skills
ITW—Italian Literature (Writings)
JPN—Japanese
JPT—Japanese Culture in Translation or Translation Skills
JPW—Japanese Literature (Writings)
LIN—Linguistics
POR—Portuguese Language
PRT—Portuguese Culture in Translation or Translation Skills
RUS—Russian Language
RUT—Russian Culture in Translation or Translation Skills
RUW—Russian Literature (Writings)
SEC—Serbo-Croatian Language
SLL—Slavic Languages
SPN—Spanish Language
SPT—Spanish Culture in Translation or Translation Skills
SPW—Spanish Literature (Writings)

All language and literature courses are taught primarily in the foreign language with the exception of courses in literature in translation and in film.

Undergraduate Courses

Note: Graduate students wishing to take courses at the 1000-4000 level must obtain permission of the instructor, the language coordinator for that course, and the Modern Languages' associate chair for graduate studies.

Arabic

ABT 3520r. Arab Culture and Civilization (3). This course develops students' understanding of everyday life in the Arabic-speaking MENA region (Middle East and North Africa). Students develop a basic critical understanding of the diversity of ways of living, thinking, and being in the area, while increasing student's knowledge of the cultural characteristics and points of reference broadly shared by Arabic speakers. Students are regularly asked to compare the cultural phenomena in the MENA region with societies they have lived in so that they can make the unfamiliar more familiar.

ARA 1120. Elementary Arabic I (4). This course is for students who have no previous knowledge of Modern Standard Arabic. The aim is basic proficiency in the four language skills: reading, writing, speaking, and listening. Basic vocabulary, sentence structure, grammar, and pronunciation in Modern Standard Arabic are introduced as well as one Arabic dialect. This course follows a communicative approach. It enables students to put the language they are learning into actual use. May not be taken concurrently with ARA 1121 and/or 2220 or by native speakers.

ARA 1121. Elementary Arabic II (4). Prerequisite: ARA 1120. This course introduces extended vocabulary and grammar, and basic conversation is emphasized. Students start conversing in spoken Arabic as well as reading and writing in Modern Standard Arabic. This course also develops the students' knowledge of Arab culture. May not be taken concurrently with ARA 1120 and/or 2220 or by native speakers.

ARA 2220. Intermediate Arabic (4). Prerequisite: ARA 1121. This course solidifies knowledge of basic grammar and expands the students' vocabulary. It emphasizes reading and writing in formal Arabic, as well as listening and speaking in Colloquial. Students participate in cultural activities, write compositions, and give oral presentations in class. May not be taken concurrently with ARA 1120 and/or 1121. Students in this course should have taken two semesters of Arabic in college or the equivalent.

ARA 2240r. Beginning Conversation (3). Prerequisite: ARA 1120 or instructor permission. This course in Levantine Arabic adopts a practical communicative approach in order to use Arabic in meaningful contexts. Students practice speaking, improve listening skills and deepen cultural understanding. By the end of this course, students will be able to function effectively in authentic situations when visiting the Arab World or interacting with native speakers. Taken in conjunction with ARA 1121 or 2220. May be repeated to a maximum of six semester hours.

ARA 3222. Mid-Intermediate Arabic (3). Prerequisites: ARA 2220 (C- or better) or higher ARA course (C-or better). This course is designed for students who have had three semesters of Arabic language or equivalent learning experience. This course aims to continue developing students' speaking, listening and reading comprehension, as well as writing and cultural skills. It focuses on grammar, composition and vocabulary building. May be taken concurrently with ARA 2240.

ARA 3300. Advanced Arabic I (3). Prerequisite: ARA 3222. This course expands on vocabulary and grammar, and advanced conversation is emphasized. Students converse in Arabic as well as read and write in Modern Standard Arabic. This course also continues developing the students' knowledge of Arab culture.

ARA 4421. Media Arabic (3). Prerequisite: ARA 2220 or higher. This course introduces students to the Arabic language, the Arab press, and to ordinary news items in print or broadcasted. It provides intermediate level students with an introduction to the language of the Arab media and develops their basic reading and interpreting skills.

ARA 4905r. Directed Individual Studies (3). Students arrange with individual faculty members to undertake specialized study in areas outside of, or in addition to, the regular curriculum. May be repeated to a maximum of six semester hours.

ARA 4970r. Honors Thesis (1–6). May be repeated to a maximum of nine semester hours, three hours of which may be applied to the requirements for a minor in Arabic with permission of the department. All honors work is directed by the student's honors committee.

IDS 3450. Through an Arabic Lens: The Intersection of Film and Culture (3). This course explores Arab cinema from the colonial period to the present, examining the cultural personifications that distinguish it from Hollywood cinema. It provides an in-depth exploration of cultural identity and politics in the Arab World. Through cinematographic images and readings, students engage in the history of cultural, political, and religious diversity within dynamically changing Arab societies. Taught in English. All movies have English subtitles.

Chinese

CHI 1110. Elementary Conversational Chinese (4). This course introduces beginners to basic conversational Chinese, enabling them to develop interpretive and communicative skills in Chinese at the elementary level and grasp rudimentary knowledge of social customs and cultural practices in Chinese-speaking communities.

CHI 1120. Elementary Chinese I (4). This course emphasizes speaking and listening, although an acquisition of reading and writing skills is also an integral part of the course. Some fundamental syntactic constructions introduced are: word order, nominal classifiers, verb classification, and formation of complex sentences. May not be taken by native speakers. May not be taken concurrently with CHI 1121 and/or 2220.

CHI 1121. Elementary Chinese II (4). Prerequisite: CHI 1120 or equivalent. This course further emphasizes the skills introduced in CHI 1120, including speaking, listening, and reading. May not be taken by native speakers. May not be taken concurrently with CHI 1120 and/or 2220.

CHI 2220. Intermediate Chinese (4). Prerequisite: CHI 1121 or equivalent. This course emphasizes reading and writing and introduces more of the essential Chinese syntax. More time is devoted to learning Chinese characters in both recognition and production levels. May not be taken by native speakers. May not be taken concurrently with CHI 1120 and/or 1121.

CHI 2243. Intermediate Conversational Chinese (3). This course helps students to further develop the three kinds of communicative skills in Chinese at the intermediate level: interpreting spoken language and written texts, communicating with Chinese speakers on matters in everyday life, and preparing and delivering presentations on sociocultural topics.

CHI 3240. Chinese Reading and Conversation (3). Prerequisite: CHI 2200 or instructor permission. This course is offered to meet the needs of students in current intermediate-level Chinese classes who seek not only to study Chinese at a more advanced level, but also to improve their Chinese proficiency in reading comprehension and oral communication in various settings.

CHI 3404r. Chinese Calligraphy and Poetry (3). Prerequisite: One Chinese language course or equivalent ability. This course develops both the ability to write Chinese characters and the knowledge of Chinese calligraphy. It comprises two tasks: 1) to grasp the structural rules of Chinese characters and the skills of memorizing and writing characters; 2) to understand the history and appreciate the charm of Chinese calligraphy by integrating calligraphic practice with the study of literary texts. May be repeated to a maximum of six semester hours.

CHI 3420r. Chinese Grammar and Composition (3). Prerequisite: CHI 2220 or instructor permission. This course aims to develop students' Chinese proficiency in reading and writing while focusing on grammar, composition, and vocabulary building. May be taken concurrently with CHI 3240. May be repeated to a maximum of six semester hours when content changes.

CHI 3422. Grammar and Composition II (3). Prerequisite: CHI 3420 or instructor permission. This course aims to develop students' Chinese proficiency adequate to the intermediate-high level in reading and writing, grammar, composition, and vocabulary.

CHI 3440r. Business Chinese (3). Prerequisite: CHI 2220 or permission of instructor. This course develops students' Chinese proficiency in the context of business activities that require not only adequate language skills at the intermediate-high level but also adequate knowledge of socio-cultural customs in China. May be repeated when content changes to a maximum of six semester hours.

CHI 3441. Business Chinese II (3). Prerequisite: CHI 2220 or equivalent learning experience. This course is a continuation of "Business Chinese I". It is designed to further improve students' language skills and cultural awareness for business purposes. For a Chinese major with business concentration, students can take this course to fulfill either the language or business requirements.

CHI 3501. Readings in Chinese Short Stories and Essays (3). Prerequisite: CHI 2220 or equivalent. This course is an introduction of selected materials in modern Chinese literature. The course objectives are to train students to be able to read some carefully chosen original works and to bring to students' awareness various cross-cultural differences.

CHI 4400r. Chinese-English Translation (3). Prerequisite: CHI 3422. This course introduces students to basic concepts of translation theory, and helps them to obtain fundamental skills and techniques in Chinese-English translation.

CHI 4410r. Advanced Chinese I (3). Prerequisite: Two CHI 3000-level courses or instructor permission. This course is designed for students who have had three years of Chinese language courses or equivalent learning experience. Students study both advanced-level language skills and Chinese culture in the original language. May be repeated to a maximum of six semester hours.

CHI 4411r. Advanced Chinese II (3). Prerequisite: One 4000-level course with the CHI or CHW prefix. This course aims to develop fluency and accuracy in advanced-level Chinese in using complex vocabulary and sentence patterns, grasping basic forms of expository and argumentative prose, and discussing real-life issues of contemporary China both in writing and conversation. May be repeated to a maximum of six semester hours.

CHI 4503. Readings in Chinese History (3). Prerequisite: Instructor permission. This course introduces a sketch of Chinese history. Students are taught to read the text in Chinese so they can expand their vocabulary to include those words necessary to understand Chinese culture and tradition.

CHI 4855r. Introduction to Classical Chinese (3). Prerequisites: Two 3000-level Chinese language courses, or instructor permission. This course introduces students to the grammar, vocabulary, and style of classical Chinese. It also helps students who desire to read modern Chinese texts in the formal, professional, and academic styles.

CHI 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

CHI 4930r. Special Topics (3). Prerequisite: Divisional permission. This course allows students to study literary topics of a special kind, depending on student interest and faculty expertise. May be repeated to a maximum of nine semester hours.

CHI 4942r. Internship in Applied Chinese (1–6). (S/U grade only.) Prerequisite: Advanced standing in Chinese. This course provides academic credit for students working in governmental agencies or private business where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six semester hours.

CHT 3123r. Pre-Modern Chinese Literature and Culture (3). This course acquaints students with the selected literary works from early China to the nineteenth century. The course provides the knowledge of pre-modern Chinese literature and culture and the analytical skills necessary for examining Chinese literary texts. Major literary genres (poetry, fiction, drama, and prose) and representative writers are discussed. This course can be taken to fulfill the requirement for Chinese or Asian Studies major/minor, liberal studies and multicultural awareness. The course is taught in English. May be repeated to a maximum of six semester hours.

CHT 3124r. Modern Chinese Literature (3). This course examines modern Chinese literature in its historical contexts and examines its role in the nation-building process of Modern China. Students read English translations of works that cover the primary literary genres and were created by major writers during this period from mainland China, Taiwan and the Chinese diaspora. Taught in English. May be repeated to a maximum of six semester hours.

CHT 3301r. Chinese Folklore: Myths, Legends, and Fairy Tales (3). This course focuses on myths, legends, fairy tales, and some other popular components of folklore, such as cultural symbols, which can be constantly observed in present-day Chinese communities. Probing the cultural roots, transformations and adaptations of Chinese folklore, the subject matter of this course spans from antiquity to the present. The course can be taken to fulfill the requirements for Chinese and Asian Studies major/minor and multicultural awareness. The course is also taught in English and has no prerequisites. May be repeated to a maximum of six semester hours.

CHT 3391r. Chinese Cinema (3). This course studies representative films from mainland China, Hong Kong, and Taiwan from diverse critical perspectives and in proper historical contexts. Studies Chinese cinema as both a unique genre of modern arts and a powerful sociopolitical discourse. Taught in English. May be repeated to a maximum of six semester hours.

CHT 3392r. Writing Women in Pre-Modern China (3). This course introduces students to Chinese women's writing up to the 19th century. Readings also include some men's writings on women to assist students with the exploration of women's culture in pre-modern society, especially how women negotiated gender power as active agents rather than passive victims. The course can be taken to fulfill the requirements for Chinese or Asian Studies major/minor, liberal studies, and multicultural awareness. This course is taught in English. May be repeated to a maximum of six semester hours.

CHT 3501r. Chinese Civilization (3-6). This course introduces the essentials of Chinese civilization from a historical perspective; it focuses on topics concerning China's social, political, intellectual, religious, and literary traditions, and examines their formations in historical contexts spanning from antiquity to the early 20th century. May be repeated to a maximum of six semester hours.

CHT 3930r. Topics in Chinese Literature (3). This course is for students interested in Chinese culture and literature in translation. Students learn the skills of interpreting literary works and understand the development of Chinese literature. May be repeated to a maximum of six semester hours. May be repeated within the same semester.

Film Courses

See course descriptions under individual language areas.

ABT	**3520r**	Arab Culture and Civilization
CHT	**3391r**	Chinese Cinema and Culture
FRT	**3520r**	French and Francophone Cinema
GET	**3524r**	German Cinema
IDS	**3188**	German Society Through Film: The Legacy of Nazi Crimes Against Humanity
IDS	**3450**	Through an Arabic Lens: The Intersection of Film and Culture
IDS	**3459**	Cinema Gone Global
ITT	**3523**	Italian Cinema
JPT	**3391r**	Japanese Film and Culture
PRT	**3391r**	Brazilian Literature and Film in Translation
RUT	**3523r**	Russian Cinema
SPT	**3391r**	Hispanic Cinema

General Foreign Language and Culture Courses

ASN 3822. Traditions of East Asian Humanities (3). This course introduces the humanities traditions of China, Japan, and Korea through major works in literature, philosophy, religion, history, and arts. It studies each tradition in its own sociopolitical contexts from antiquity to the 19th century, and also examines the historical patterns of contact and influence among these traditions.

FOL 2100r. International Study of Language and Culture (3). This course is designed around a communicative approach, which is based on the premise that the best way to learn a foreign language is through repeated, meaningful exposure to the foreign language as well as interaction with classmates and the instructor. The course is dedicated to communicating in the host language using grammar and vocabulary and analysis of texts dealing with culture. May be repeated to a maximum of six semester hours.

FOL 3930r. Experiments in Modern Language (3). May be repeated to a maximum of nine semester hours.

FOL 4901r. Tutorial in Modern Languages, Literatures or Linguistics (1–6). (S/U grade only.) Prerequisites: Junior standing or command of language and instructor permission. This course allows students to pursue a topic within modern languages (linguistics, literature, culture, or civilization). Number of semester hours taken depends on the content and breadth of the topic. May be repeated twice with different topics to a maximum of six semester hours.

FOW 3240. Literature and Sexuality (3). This course investigates how modern Western fiction, in particular the modern novel, represents and critically examines a variety of themes related to sexuality in a socio-cultural and political context.

FOW 4540. Franco-American Culture Wars (3). This course examines a major shift in the cultural balance of power between the United States and France. Topics range from the transition from the 19th century American awe at French achievements in fiction and painting to the ever increasing American influence on France's literary and visual art.

IDS 2291. Language Birth, Language Death (3). This course explores how languages are born, the ways and reasons why they change, and the limits of language learning and teaching. The course also examines the factors leading to language loss and language death, the reasons why we, as global citizens, should care, and how language specialists and activists attempt to bring dying languages back to life.

IDS 2412. (Re)Imagining Florida: From Spanish Colonialism to Today (3). This course explores how the idea of Florida took shape and shifted in the minds of Spaniards from the sixteenth-nineteenth centuries. Throughout, students consider how their reconstruction of the Spanish vision of Florida may enrich and even alter their understanding of Florida today.

IDS 3195. Vistas on Florence: From Dante to the Big Flood of 1966 (3). This course offers an excursion through eight centuries of Florentine history, engaging students with a variety of sources: primary literary texts, original iconography, visual arts, films, and the direct observation of urban landscape. The city itself, as far as possible, serves as an open-air classroom.

IDS 3330. The Culture Is in the Cuisine: The Food of Italy (3). This course explores the cultural history of Italian cuisine from its ancient roots to contemporary times. Students examine how culinary practices and the culture of food are essential elements of "Italian" identity.

IDS 3450. Through an Arabic Lens: The Intersection of Film and Culture (3). This course explores Arab cinema from the colonial period to the present, examining the cultural personifications that distinguish it from Hollywood cinema. It provides an in-depth exploration of cultural identity and politics in the Arab World. Through cinematographic images and readings, students engage in the history of cultural, political, and religious diversity within dynamically changing Arab societies. Taught in English. All movies have English subtitles.

IDS 3459. Cinema Gone Global (3). This course focuses on the aesthetic, technological, economic, and philosophical issues that increasingly connect cinemas across the globe and speak to critical changes in the contemporary world on the basis of various cinema traditions today, negotiating between the global and its "discontents." Course taught in English.

HUM 4934r. Interdisciplinary Topics (3). This course provides students from any discipline with an integrated interdisciplinary learning experience. The course is taught by instructors from at least two different departments and/or colleges. Topics vary. May be repeated to a maximum of twelve semester hours.

French

French and Francophone Language and Culture

FRE 1120. Elementary French I (4). This course stresses oral comprehension, speaking, reading, and writing. May not be taken by native speakers. May not be taken concurrently with FRE 1121 and/or 2220.

FRE 1121. Elementary French II (4). Prerequisite: FRE 1120 or equivalent. This course places further emphasis on oral comprehension, speaking, reading, and writing. May not be taken by native speakers. May not be taken concurrently with FRE 1120 and/or 2220.

FRE 2220. Intermediate French (4). Prerequisite: FRE 1121 or equivalent. This intermediate course offers a rapid overview of basic French grammar and expands students' oral and written French expression through structured activities and compositions. May not be taken concurrently with FRE 1120, FRE 1121, or by native speakers.

FRE 3244. Intermediate French Conversation (3). Prerequisite: FRE 2220 or equivalent. Through readings and films about contemporary issues facing French society, this course aims at developing oral communication skills in a broad cultural context.

FRE 3420. French Grammar and Composition I (3). Prerequisite: FRE 2220 or equivalent. This course is an in-depth study of French grammar emphasizing subtleties of written expression.

FRE 3421. French Grammar and Composition II (3). Prerequisite: FRE 2220 or equivalent. This course is a further study of the subtleties of written expression in the French language.

FRE 3440. Commercial French (3). Prerequisites: FRE 2220 or equivalent. This course develops language and correspondence skills appropriate to business transactions in such areas as sales, finance, transportation, management, etc.

FRE 3501. Contemporary France (3). Prerequisite: FRE 3420. This course, taught entirely in French, provides the student with an understanding of French culture and society from WW II through the present day. Topics include high vs. popular culture, political life, Franco-American relations, economics, media, France and the European Union, social interactions of the French, family life, education system, religion, cuisine, and immigration and multiculturalism. Activities and assignments emphasize French writing and speaking skills.

FRE 3780. French Phonetics (3). Prerequisite: FRE 3420. This course targets pronunciation practice using the phonetic alphabet with the objective of improving production of standard French pronunciation. French majors only.

FRE 4410. Advanced Conversation (3). This course is about oral expression, listening skills and vocabulary acquisition in French in a variety of domains using contemporary materials.

FRE 4422. Advanced Grammar and Composition (3). Prerequisite: FRE 3420 and FRE 3421. This course aims at developing writing and speaking ability at an advanced level through a review of French grammar, an introduction to Comparative Stylistics of French and English, the reading of sophisticated French prose, and the writing of two research papers.

FRE 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

FRE 4930r. Special Topics (3). Prerequisite: Divisional coordinator permission. This course allows students to study literary topics of a special kind, depending on student interest and faculty expertise. May be repeated to a maximum of nine semester hours.

FRE 4935r. Honors Thesis (1–6). This course may be repeated to a maximum of nine semester hours, three hours of which may be applied to the requirements for the major with permission of the department. All honors work is directed by the student's honors committee.

FRE 4942r. Internship in Applied French (1–6). (S/U grade only.) Prerequisite: Advanced standing in French. This course provides academic credit for students working in governmental agencies or private business where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

French and Francophone Cultures in Translation

Note: FRT courses do not count toward the major unless the student reads the works in French, writes all assignments in French, and can provide a letter from the instructor granting him/her permission to take the course for major credit.

FRT 3140. Masterworks of French Literature in Translation (3). This course is a survey of selected masterpieces of French literature, ranging from the Middle Ages to the present. The readings and instruction are in English. Can be used for minor credit in French with permission of the coordinator.

FRT 3520r. French and Francophone Cinema (3). This Francophone cinema course is offered in two versions: one focusing on the relationship between cinema and Francophone cultures and societies, and another taking a chronological and thematic approach to the movements and directors of metropolitan French cinema. This course is taught in English and, with instructor permission, three hours may be used for major or minor credit. May be repeated to a maximum of six semester hours.

FRT 3561. French Women Writers (3). Prerequisites: ENC 1101 and ENC 1121, or equivalent. This course addresses issues of race, gender, and class in a selection of works written by prominent French/francophone writers. Taught in English. Can be used for minor credit with permission of the coordinator.

Literatures, Cultures and/or Societies of French Expression

FRW 3100. Survey of French Literature I: Early-Modern France (3). Prerequisite: FRE 2220; FRE 3420 or FRE 3421 recommended. This course is an introduction to the study of early-modern French literature by reading and discussing works representative of the various schools and movements.

FRW 3101. Survey of French Literature II: Modern France (3). Prerequisite: FRE 2220. This course is an introduction to the study of modern French literature by reading and discussing works representative of the various schools and movements. (Spring semester only.)

FRW 4420. Medieval and Renaissance Literature (3). Prerequisite: FRW 3100. This course is an introduction to the poetry and prose of the medieval and early-modern periods. Emphasis is on the themes of love and friendship.

FRW 4433. 17th- and 18th-Century Literature (3). Prerequisite: FRW 3100 or FRW 3101. This course surveys major works in the areas of theatre, philosophy, and prose fiction. Special attention is given to the possible meanings of central concepts such as Classicism and Enlightenment.

FRW 4460. 19th-Century Literature (3). Prerequisite: FRW 3101. This course focuses on major themes and issues in 19th-century literature and culture.

FRW 4480. 20th-Century Literature (3). Prerequisite: FRW 3101. This course is a survey of the major works (novels, theatre, poetry) and movements of 20th-century French literature.

FRW 4761r. Studies in Francophone Literatures and Cultures (3). Prerequisite: FRW 3100 or FRW 3101. This course is an examination of selected aspects of cultural forms (books, film, music, etc.) associated with one or more French-speaking regions located outside France, including North Africa, West Africa, the Antilles, Quebec, Indo-china, and French-speaking islands in the Indian and Pacific oceans. May be repeated to a maximum of six semester hours.

FRW 4770r. Francophone Caribbean/African Cultures (3). Prerequisite: FRW 3101. This course examines the literature of Africa and the Caribbean written in French with an emphasis on Negritude and/or Creolite. May be repeated to a maximum of six semester hours.

German

German Language

GER 1110. Elementary Conversational German (4). (Conversational method.) This course is an introduction to German with emphasis on speaking. Additional hours arranged for conversational practice. Students with more than two years of high school German or the equivalent should consult the department for placement. May not be taken by native speakers. May not be taken concurrently with GER 1111, 1120, 1121 and/or 2220.

GER 1111. Elementary Conversational German (4). Prerequisites: GER 1110, GER 1120 or equivalent. This course is an introduction to German with emphasis on speaking (conversational method). Additional hours arranged for conversational practice. Students with three or four years of high school German or the equivalent should consult the department for placement. May not be taken by native speakers. May not be taken concurrently with GER 1110, 1120, 1121, and/or 2220.

GER 1120. Elementary German I (4). This course is an introduction to German. May not be taken by native speakers. Students with more than two years of high school German or the equivalent should consult the department for placement. May not be taken concurrently with GER 1110, 1111, 1121 or 2220.

GER 1121. Elementary German II (4). Prerequisites: GER 1110, GER 1120 or equivalent. This course may not be taken by native speakers. Students with three or four years of high school German or the equivalent should consult the department for placement. May not be taken concurrently with GER 1110, 1111, 1120, and/or 2220.

GER 2220. Intermediate German (4). Prerequisites: GER 1121, GER 1111 or equivalent. This course expands skills in reading, writing, and conversation. This course completes the baccalaureate degree requirement and serves as the transition to upper-level study. May not be taken by native speakers. May not be taken concurrently with GER 1110, 1111, 1120, and/or 1121.

GER 3310. German Grammar (3). Prerequisite: GER 2220 or equivalent. This course focuses on the rules of German grammar and syntax and employing them correctly in speaking and writing.

GER 3400. Composition and Conversation (3). Prerequisite: GER 2220 or instructor permission. In this course, the objective is the ability to write and converse on general cultural topics at a level that demonstrates near mastery of German grammar and the beginning of a personal style in the language. The course is conducted in German.

GER 3440. German Business Language and Practice (3). Prerequisite: GER 2220 or instructor permission. This course in an introduction to business languages and practices in German-speaking countries.

GER 3500. German Studies (3). Prerequisite: GER 2220 or instructor permission. This course, taught primarily in German, serves as an introduction to German studies. The course provides the student with an understanding of the major cultural aspects (literature, visual arts, history, politics, etc.) of German-speaking countries from the twentieth century to the present; the emphasis is placed on Germany in the second half of the twentieth century.

GER 3502r. Topics in German Studies (3). Prerequisite: GER 2220 or instructor permission. GER 3500 or GER 3310 are recommended. This course, taught primarily in German, presents a survey of one topic in the area of German studies. Topics may include themes from art, music, or literature placed in a cultural and historical perspective. Topics change frequently. May be repeated to a maximum of six semester hours with permission of instructor.

GER 3780. Phonetics (3). Prerequisite: GER 2220. In this course, the objectives are the acquisition of correct German sound formation by comparison with English phonetics and the improvement of the student's conversational German through pronunciation exercises. The course is conducted in German.

GER 3930r. Special Topics (3). Prerequisite: GER 2220 or instructor permission. GER 3500 or GER 3310 are recommended. This course allows students to study non-literary topics of a special kind, depending on student interest and faculty expertise. May be repeated to a maximum of nine semester hours when content changes.

GER 4420. Advanced Composition (3). Prerequisite: Two German courses at the 3000-level or higher (of which only one may be GET 3130 or GET 3524); or instructor permission. In this course, students gain the ability to write in a professional style, in standard, intermediate, and advanced German, on a variety of topics and in different genres. The course is taught in German.

GER 4480. Modern German of the News Media (3). Prerequisite: Two 3000-level courses or instructor permission. This course is an advanced-level skills course. Discussion of current events and mass media in German-speaking countries and work with authentic texts (newspapers and audio-visual material).

GER 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

GER 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine semester hours, three hours of which may be applied to the requirements for the major with permission of the department. All honors work is directed by the student's honors committee.

GER 4942r. Internship in Applied German (1–6). (S/U grade only.) Prerequisite: Advanced standing in German. This course provides academic credit for students working in governmental agencies or private business where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

German Literature in Translation

GET 3005r. Interdisciplinary Explorations in German Culture (3). In this course, students engage with central areas of German culture in order to learn about German Studies as an interdisciplinary field. Students conduct fieldwork research and other scholarly and creative research in this field on a self-chosen topic. May be repeated to a maximum of six (6) credit hours.

GET 3130. Masterpieces of German Literature in Translation: 19th and 20th Centuries (3). This course offers an introduction to masterpieces of German literature from the 19th century to the present. It uses works by authors of various ethnic, minority, and gender backgrounds that bring forth German representations of gendered or cultural others and transcultural issues. May be counted for major or minor credit. Taught in English.

GET 3524r. German Cinema (3). This course covers the contextual and stylistic features of German cinema from its classical period, in the 1920s, to the New German Cinema, through the present. The course focuses on methods of film analysis and on film criticism. Taught in English. May be repeated to a maximum of six semester hours.

GET 4800. Translation German-English/English-German (3). Prerequisite: GER 3400 or instructor permission. This course is an advanced-level skills course. Translating a variety of texts that illustrate important distinctions between German and English grammar, syntax, vocabulary, etc.

IDS 3188. German Society Through Film: The Legacy of Nazi Crimes Against Humanity (3). This course explores cinematic responses to Nazi crimes against humanity in German society. Drawing on the perspective of victims, perpetrators, bystanders, helpers, resisters, as well as preceding generations, the course investigates how cultural memory is created to reveal a multiplicity of voices and to reflect the indelible mark of the Nazi past in Germany. The course is taught in English.

IDS 3312. Robots, Monsters, Avatars: Technology and the (Post-) Human Condition (3). This course investigates the intricate relationship between the human existence and technology from both theoretical and practical perspectives. It explores fundamental questions concerning the human condition and searches for solutions to related practical problems.

German Literature (Writings)

GEW 3320. Drama (3). Prerequisites: GER 2220 or instructor permission. GER 3400, GER 3310, or GER 3500 are recommended. This course focuses on contemporary German drama in a socio-historical context. Addresses the difficulties authors confront when dramatizing current social trends, as well as the problems of interpreting and staging a play.

GEW 3370. German Short Fiction (3). Prerequisite: GER 2220 or instructor permission. GER 3400, GER 3310, or GER 3500 are recommended. This course introduces students to the principles of literary study through reading and discussion of short pieces of fiction, primarily from the twentieth century.

GEW 4591r. Studies in an Author or Theme (3). Prerequisites: Two 3000-level courses or instructor permission. This course offers the opportunity to study either a single author in-depth or to follow a specific theme that may extend over a brief period or over centuries. Course material may include non-literary textual and audio-visual material. May be repeated to a maximum of nine semester hours.

GEW 4592r. Studies in a Period or Movement (3). Prerequisites: Two 3000-level courses or instructor permission. This course concentrates on a specific literary movement such as Romanticism, Realism, Expressionism, or on a period such as the Baroque, the Enlightenment, or the Weimar period. May be repeated to a maximum of nine semester hours.

GEW 4930r. Special Topics (3). Prerequisites: Two 3000-level courses or instructor permission. In this course, students arrange with individual faculty members to undertake study in areas outside the regular curriculum. May be repeated to a maximum of nine semester hours.

Hebrew

HBR 1120. Elementary Modern Hebrew I (4). This course is an introduction to the alphabet, basic vocabulary, grammar, and syntax of modern Hebrew. Oral comprehension, speaking, and writing are emphasized through a communicative approach. Students are also introduced to modern Israeli culture. No previous knowledge required. May not be taken by native speakers. May not be taken concurrently with HBR 1121 and/or 2220.

HBR 1121. Elementary Modern Hebrew II (4). Prerequisite: HBR 1120 or equivalent. This course continues the introduction to modern Hebrew begun in HBR 1120. Cultural orientation and the practical use of Hebrew in meaningful situations. Oral comprehension, speaking, and writing are emphasized through a communicative approach. May not be taken by native speakers. May not be taken concurrently with HBR 1120 and/or 2220.

HBR 2220. Intermediate Modern Hebrew (4). Prerequisites: HBR 1120 and HBR 1121 or equivalent. This course is an introduction to modern Hebrew prose (fiction and non-fiction) as well as the continued development of speaking, listening, writing, and grammatical skills. May not be taken by native speakers. May not be taken concurrently with HBR 1120 and/or 1121. Completion of this course fulfills the foreign language requirement for the College of Arts and Sciences.

Italian

Italian Language

ITA 1120. Elementary Italian I (4). This introductory course gives the student basic grammatical structures to enable speaking, understanding, reading, and writing at the elementary level. May not be taken by native speakers. May not be taken concurrently with ITA 1111, 1121, and/or 2220.

ITA 1121. Elementary Italian II (4). Prerequisite: ITA 1120 or equivalent. This course builds upon the student's ability to speak, understand, read, and write Italian at an elementary level. May not be taken by native speakers. May not be taken concurrently with ITA 1111, 1120 and/or 2220.

ITA 2220. Reading and Conversation (4). Prerequisite: ITA 1111 or ITA 1121. This course stresses skills in reading and conversational Italian at the second-year level. Readings are supported by discussions of the materials. This course completes the baccalaureate degree requirement. May not be taken concurrently with ITA 1111, 1120, and/or 1121. May not be taken by native speakers.

ITA 2225. Italian for Careers (3). Prerequisite: ITA 1121 or equivalent. This course is an intermediate-level Italian language course that provides students with the opportunity to improve their Italian communication skills within the realm of Italian business. This course focuses on application within Italian business sectors, with particular attention given to Made in Italy manufacturers.

ITA 2240. Conversation (3). Prerequisite: ITA 2220. This course stresses development of conversational skills at the third-year level. May not be taken by native speakers.

ITA 3420. Grammar and Composition (3). Prerequisite: ITA 2220. This course presents a review and further study of grammar and idiomatic constructions. Composition practice augments the skills developed.

ITA 3421. Grammar and Composition (3). Prerequisite: ITA 3420. This course is a continuation of ITA 3420 with greater stress on theme-writing skills.

ITA 3440. Business Italian (3). Prerequisite: ITA 2220 or equivalent. This course introduces current Italian business formats and provides practice in commercial correspondence with its specialized vocabulary and syntax.

ITA 3941r. Directed Individual Tutorial Practice (3). Prerequisites: ITA 1111, ITA 1120, ITA 1121, ITA 2220, or equivalent. This course develops skilled undergraduate tutors for the Dartmouth method ITA 1110/1111 sequence. May be repeated to a maximum of six semester hours.

ITA 4410. Advanced Italian Conversation (3). Prerequisite: ITA 2240. This course is designed to develop fluency in conversation skills at the fourth-year level by means of extensive vocabulary building and practice.

ITA 4450. Advanced Italian Composition and Style (3). Prerequisite: ITA 3421 or equivalent language competency as determined by the instructor. This course stresses the morphological and syntactical order of Italian by means of extensive drill in controlled and free composition.

ITA 4500. Italian Culture and Civilization (3). Prerequisite: ITA 3100 and ITA 3101, or equivalent. This course surveys Italian culture and civilization and provides a historical perspective to aspects of Italian society.

ITA 4905r. Directed Individual Study (3). For this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

ITA 4930r. Special Topics (3). Prerequisite: Divisional coordinator permission. This course allows students to study literary topics of a special kind, depending on student interest and faculty expertise. May be repeated to a maximum of nine semester hours.

ITA 4935r. Honors Thesis (1–6). This course may be repeated to a maximum of nine semester hours, three hours of which may be applied to the requirements for the major with permission of the department. All honors work is directed by the students' honors committee. May be repeated to a maximum of nine semester hours.

ITA 4942r. Internship in Applied Italian (1–6). (S/U grade only.) Prerequisite: Advanced standing in Italian. This course provides academic credit for students working in governmental agencies or private business where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six semester hours.

Italian Literature and Culture in Translation

ITT 3114. Dante's Inferno (3).This course is an in-depth study of Dante's Inferno and its cultural and intellectual context, with a focus on the ethical dimension of the poem, This course is offered in English.

ITT 3430. Masterpieces of Italian Literature and Culture in Translation (3). After a general overview of Italian history and culture, this course introduces students to a sample of novels, plays, paintings and movies that present key aspects of Italian culture and its achievements. Taught in English.

ITT 3500. Italian Culture and Civilization: From Origins to the Age of Romanticism (3). This course is an introduction to artistic, intellectual, social, and political trends in Italy from pre-Roman time to the Age of Romanticism with specific reference to Medieval and Renaissance Italy as a center of culture in Europe. Offered in English.

ITT 3501. Modern Italian Culture: From the Unification to the Present (3). This course is an introduction to the cultural developments and sociopolitical changes in modern Italy from the Risorgimento to the formation of a nation. Students examine Fascism's influence on the national culture, as well as consider the contemporary impact of immigration on diversity. Offered in English.

ITT 3520. The Italian-American Experience in Literature and Film (3). This course examines the literary and cinematic contributions that Italian Americans have made during the past century. The course is designed to assist students in exploring ways in which Italian and American cultures have combined to form a distinctive ethnic culture.

ITT 3523. Italian Cinema (3). This course offers an introduction to Italian cinema: history, practices, and protagonists. Taught in English.

Italian Literature (Writings)

ITW 3100. Survey of Italian Literature: Origins through 18th-Century (3). Prerequisite: ITA 2220 or equivalent. This course introduces students to representative literary figures and movements from the beginnings through the 18th century.

ITW 3101. Survey of Italian Literature: 19th- and 20th-Centuries (3). Prerequisite: ITA 2220. This course introduces students to representative literary figures and movements from the 19th and 20th centuries.

ITW 4400. Renaissance Literature (3). Prerequisites: ITW 3100 and ITW 3101, or equivalent. This course offers selected readings and discussions of the literature of the Italian Renaissance including such figures as Alberti, Lorenzo deMedici, Poliziano, Machiavelli, Michelangelo, Ariosto, and Tasso.

ITW 4440r. 18th- and 19th-Century Literature (3). Prerequisites: ITW 3100 and ITW 3101, or equivalent. This course offers readings and discussions of figures and movements of the 18th and 19th centuries including Goldoni, Alfieri, Foscolo, Manzoni, Leopardi, and Verga. May be repeated to a maximum of six semester hours.

ITW 4480. 20th-Century Literature (3). Prerequisites: ITW 3100 and ITW 3101, or equivalent. This course offers readings and discussions of figures and movements in 20th-century Italian literature.

ITW 4481. Readings in Contemporary Italian Prose (3). Prerequisites: ITW 3100 and ITW 3101, or equivalent. This course offers readings and discussions of works of contemporary Italian writers.

ITW 4504. Italiane, italiani! – Gender in Italian Culture (3). Prerequisite: ITW 3100 or ITW 3101. This class reflects on Italian culture by discussing texts, movies, and social events from the standpoint of gender. This course is conducted in Italian.

ITW 4700. The Trecento Writers (3). Prerequisites: ITW 3100 and ITW 3101, or equivalent. This course offers a study of the Trecento writers: Dante, Petrarch, and Boccaccio. Readings and discussions are available in both English and Italian.

Japanese

JPN 1120. Elementary Japanese I (4). This course stresses speaking and listening, although the acquisition of reading and writing skills is also an integral part of the course. Some fundamental syntactic and morphological points introduced are word order, nominal particles, verbal endings, verb classification, speech levels, and the formation of some complex sentences. In addition, an introduction is given to the Japanese syllabaries and kanji. May not be taken by native speakers. May not be taken concurrently with JPN 1121, 2220 and/or 2300.

JPN 1121. Elementary Japanese II (4). Prerequisite: JPN 1120 or equivalent. This course continues to stress speaking, reading, listening, and writing skills using the syntactic and morphological points introduced in JPN 1120. Further study is made of the Japanese syllabaries and kanji. May not be taken by native speakers. May not be taken concurrently with JPN 1120, 2220 and/or 2300.

JPN 2220. Intermediate Reading and Conversation (4). Prerequisite: JPN 1121 or equivalent. May not be taken by native speakers. This course continues to emphasize speaking and listening and introduces more of the essentials of Japanese syntax. In this course more time is devoted to reading and writing. About 400 kanji are introduced. May not be taken concurrently with JPN 1120, 1121 and/or 2300.

JPN 2300. Review Grammar and Syntax (4). Prerequisite: JPN 2220 (C- or better). This course is designed to give students an opportunity not only to strengthen their knowledge of basic Japanese, but to gain better insight into the structure of modern Japanese. Through graded exercises students are taught to write sophisticated Japanese. May not be taken by native speakers. May not be taken concurrently with JPN 1120, 1121 and/or 2220.

JPN 3132. Listening Drill I (1). Prerequisite: JPN 1121. This course prepares students at the advanced-elementary level in Japanese. Students are exposed to authentic Japanese in order to master basic listening skills. Emphasis is placed on conversational Japanese and basic daily situations to familiarize students with common structures, vocabulary, and grammar, and to facilitate improved oral comprehension in Japanese.

JPN 3133. Listening Drill II (1). Prerequisite: JPN 2300. This course prepares students at the intermediate level in Japanese. Students are exposed to authentic Japanese at natural speed in order to master intermediate-level listening skills. Emphasis is placed on conversational Japanese, daily situations, news, stories, and explanations to prepare students to pick significant components out of complex speech, and to facilitate improved overall oral comprehension in Japanese.

JPN 3202. Readings in Short Stories and Essays (3). Prerequisite: JPN 2300. This course introduces selected materials in modern Japanese literature, humanities, and social sciences. The objectives of this course are to train students to be able to read some annotated works in original Japanese and to bring to students' awareness various cross-cultural differences. May not be taken by native speakers.

JPN 3240L. Conversational Japanese (3). Prerequisite: JPN 2300 or equivalent, or instructor permission. This course enables students to develop intermediate-level communicative skills in Japanese. Students communicate in Japanese on sociocultural issues and topics pertinent to daily life, interpret spoken language, and learn expressions critical to spoken fluency in Japanese.

JPN 3250. Practical Skills in Japanese Communication (3). Prerequisite: JPN 2300. This course prepares students at the high-intermediate level in Japanese. Students develop oral communication skills that enable them to perform appropriately in Japanese in various authentic, real-life situations.

JPN 3301r. Kanji Drill (1). This course is designed to develop students' Kanji skills in both writing and reading. Students learn and practice approximately 300 Kanji during the semester, in addition to acquiring knowledge of Kanji radicals and origins, which facilitates additional Kanji comprehension and memorization. May be repeated to a maximum of two semester hours.

JPN 3302r. Kanji Drill II (1). Prerequisite: JPN 3301 or JPN 2302, or equivalent. This course continues to develop students' Kanji skills in both writing and reading. Students learn and practice approximately 200-250 intermediate-level Kanji during the semester, in addition to building knowledge of Kanji radicals and origins.

JPN 3303. Writing and Reading Japanese (3). Pre-or corequisite: JPN 2220; or instructor permission. This course is designed to augment the skills students acquire in 1000- and 2000-level Japanese courses by stressing reading and writing skills at the intermediate level.

JPN 3440. Business Japanese (3). Prerequisite: JPN 2300. This course trains students to utilize appropriate expressions in various business-related situations in Japan.

JPN 3441. Business Japanese II (3). Prerequisite: JPN 3440. This course is a continuation of Business Japanese I. It is designed to further develop students' language skills and knowledge of socio-cultural customs in Japan for business purposes, preparing students to utilize appropriate expressions and behaviors in various business-related situations in Japan.

JPN 4130. Reading Modern Japanese Literature (3). Prerequisites: JPN 3202 or instructor permission. This course is an introduction to modern and contemporary Japanese literature through the reading of short novels and plays.

JPN 4412. Advanced Japanese (3). Prerequisite: JPN 3202. This course leads qualified students to develop their advanced-level skills in Japanese by reading and discussing various types of writings, ranging from newspaper articles to literary stories and essays.

JPN 4413. Advanced Japanese B (3). Prerequisite: JPN 3202. This course prepares students at the upper-intermediate to advanced level in Japanese. It aims to improve students' communicative fluency and accuracy in Japanese through emphasis on speaking, listening, reading, and writing.

JPN 4414. Advanced Japanese C: Reading and Writing (3). Prerequisite: JPN 3202. This course targets intermediate and advanced students of Japanese. Students improve reading skills by practicing various reading techniques. Focus is placed on written Japanese and the acquisition of natural reading ability.

JPN 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

JPN 4930r. Special Topics (3). Prerequisite: Divisional coordinator permission. This course allows students to study literary topics of a special kind, depending on student interest and faculty expertise. May be repeated to a maximum of twelve semester hours.

JPN 4942r. Internship in Applied Japanese (1–6). (S/U grade only.) Prerequisite: Advanced standing in Japanese. This course provides academic credit for students working in governmental agencies or private business where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six semester hours.

JPT 3122r. Modern Japanese Literature in Translation (3). This course covers short stories and novels of major authors in modern Japanese literature after 1868, giving students an understanding of various aspects of modern Japan. May be repeated to a maximum of six semester hours. Taught in English.

JPT 3330. Premodern Japanese Literature in Translation (3). This course provides an overview of Japanese literature from its beginnings to the late 19th century, exposing students to fundamental works from a variety of significant genres. The course focuses on the coexistence of multiple literary traditions in Japan and on the characteristic dynamics that informed literary, social, cultural, historical, and economic developments; emphasis is placed on gender, genre, and class as major categories of sociocultural and textual organization. Taught in English.

JPT 3391r. Japanese Film and Culture (3). This course is for students interested in Japanese film and culture, and culture in translation. Students learn the skills of analyzing films and come to understand the development of Japanese film and culture. May be repeated to a maximum of six semester hours. Taught in English.

JPT 3510r. Japanese Economy and Environment (3). This course introduces students to current topics related to Japan's economy and social environment. Students learn about and discuss significant issues, such as employment, education, international trade, and energy, to better understand contemporary Japanese society. May be repeated to a maximum of six semester hours when topics vary.

JPT 3511r. Japanese Popular Culture (3). This course explores Japanese popular culture from a range of perspectives. Students investigate cultures of reception, shifting demographics and key developments in multiple media, and various forms of leisure and modes of consumption, to consider their relationship to history, culture, and lived experience.

JPT 3512r. Contemporary Japanese Culture (3). This course investigates contemporary developments in Japanese culture, focusing on features both that are particular to Japan and that tie Japan to global culture. Students explore the connections between various forms of cultural production and social interaction and other social, political, and economic institutions in Japan, as well as the relationship between new technologies and markets and the global exchange of cultural forms and social ideas. May be repeated to a maximum of nine semester hours.

JPT 4020r. Japanese Calligraphy (1). Prerequisite: JPN 1120 or equivalent. This course is designed to teach beginning students how to write the Japanese kana syllabaries and kanji properly according to the stroke order. The art of sumi writing is also introduced. May be repeated to a maximum of two semester hours.

JPT 4124r. Contemporary Japanese Literature in Translation (3). This course introduces students to contemporary literature in Japan. It approaches principal developments in literary production since the 1980s from multiple perspectives. Focus is placed on how these texts resonate with both sociocultural contexts in Japan and global issues in literary and media studies. May be repeated to a maximum of nine semester hours.

JPT 4310. Japanese Manga (3). This course traces the history of manga from its hybrid prehistory to its developments as a postwar industry and cultural form, investigating manga's connections to adjacent media practices and its social and cultural importance both domestically and abroad.

JPT 4504. The Culture of Tea in Japan (3). This course introduces students to the Japanese Tea Ceremony, from its inception in medieval Japan to its metamorphosis under 20th century nationalism and its global expansion during the postwar economic boom. Taught in English.

JPT 4934. Special Topics in Japanese Study (3). This course allows students to study Japanese literary and cultural topics of a special kind, depending on student interest and faculty expertise. Course is taught in English. May be repeated to a maximum of nine credit hours.

JPW 4551r. Translating Modern Japanese Literature (3). Prerequisites: JPN 4413 and instructor permission. This course focuses on reading and translating contemporary Japanese fiction and essays. It is targeted toward advanced language students as they transition from being students of Japanese to being proficient readers of Japanese. Students read texts in the original Japanese from a wide variety of authors in order to develop the skills and confidence needed to tackle written Japanese as it is published and read in Japan today. May be repeated to a maximum of six semester hours.

JPT 4934r. Special Topics in Japanese Studies (3). This course allows students to study Japanese literary and cultural topics of a special kind, depending on student interest and faculty expertise. Course is taught in English. May be repeated to a maximum of nine credit hours when topics vary.

Linguistics

Note: All linguistics courses taken for Spanish major credit must be taken through the Department of Modern Languages and Linguistics.

IDS 2291. Language Birth, Language Death (3). This course explores how languages are born, the ways and reasons why they change, and the limits of language learning and teaching. The course also examines the factors leading to language loss and language death, the reasons why we, as global citizens, should care, and how language specialists and activists attempt to bring dying languages back to life. Meets the Liberal Studies requirements for E-Series and Cultural Practice and Humanities.

LIN 3041. Introductory Linguistics for Foreign Language Majors (3). This course helps develop an understanding of the nature of language, to dispel a number of myths and misconceptions about language, and to provide tools and techniques for describing linguistic data. May count toward the major in Slavic (Russian) and Spanish. May count toward the major in Spanish with a concentration in business, and the Spanish co-major.

LIN 3108. Introduction to East Asian Linguistics (3). Prerequisite: CHI 2220 or JPN 2220. This course introduces phonological, morphological, syntactic and other linguistic features of the Chinese and Japanese languages. The course also covers cognitive aspects of sentence processing of these two languages.

LIN 4030. Introduction to Historical Linguistics (3). This course is designed to familiarize students with the world language families, notion of relatedness, sound correspondence, comparative method, internal reconstruction, and the reconstruction of the Proto-Indo-European languages. Several theories of sound change are also discussed.

LIN 4040. Introduction to Descriptive Linguistics (3). This course attempts to develop an understanding of the organization of language, to provide tools and techniques for describing language data, and to examine various models of linguistic description. May count toward the major in Slavic (Russian) and Spanish.

LIN 4201. Sounds of the World's Languages (3). Miscellaneous requirement: Prior completion of LIN 3041 recommended. This course covers sounds and sound patterns in the world's languages, focusing on sounds occurring both in majority and minority languages, with a special attention to those attested only in certain language families or used for special purposes.

LIN 4512. Introduction to Transformational Grammar (3). The purpose of this course is to expose students to the underlying principles of syntax. Students are taught the mechanics of syntactic theories dating from the late 1960s to the present.

LIN 4664. Ethnopoetics (3). This course uses linguistic patterns to trace the formal structures of texts. Topics addressed in this course include oral poetry, anthropological linguistics, linguistic relativity, ethnopoetic and discourse analyses, speech genres, linguistic transcription and performance, symbolism, ethnomusicology, writing and ethnography.

LIN 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

LIN 4930r. Topics in Linguistics (3). In this course, students arrange with individual faculty members to undertake study in areas outside the regular curriculum. May be repeated to a maximum of twelve semester hours. May be repeated within the same semester.

Portuguese (Brazilian)

POR 1120. Elementary Portuguese I (4). This course is a first semester course in Portuguese for beginning students with no prior exposure to the language. This course emphasizes the four basic communicative skills of listening, reading, speaking, and writing in a culturally authentic context.

POR 1121. Elementary Portuguese II (4). Prerequisite: POR 1120. This course is a second semester course in Portuguese for beginning level students. This course emphasizes the four basic communicative skills of listening, reading, speaking, and writing in a culturally authentic context.

POR 2220. Intermediate Portuguese (4). Prerequisites: POR 1120 and POR 1121. This course is a third semester course in Portuguese for intermediate level students. This course emphasizes the four basic communicative skills of listening, reading, speaking, and writing in a culturally authentic context.

POR 3140. Portuguese for Advanced Students of Spanish I (3). Prerequisite: A 3000-level course in Spanish (completed or concurrent enrollment) or instructor permission. An intensive course in Brazilian Portuguese for advanced students of Spanish, other Romance languages, and/or heritage speakers of Portuguese. It is based on positive transfer of applicable linguistic structures of Spanish, avoidance of negative transfer, and concentration on structures unique to Portuguese. Understanding, speaking, reading, and writing skills are practiced.

POR 3141. Portuguese for Advanced Students of Spanish II (3). Prerequisite: POR 3140. This course is based on positive transfer of applicable linguistic structures of Spanish and/or other Romance languages, avoidance of negative transfer, and concentration on structures unique to Portuguese. Understanding, speaking, reading, and writing skills are practiced.

POR 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

POR 4930r. Special Topics (3). Prerequisite: Divisional coordinator permission. This course allows students to study literary, cultural, or linguistic topics of a special kind, depending on student interest and faculty expertise. May be repeated to a maximum of nine semester hours.

PRT 3391r. Brazilian Literature and Film in Translation (3). This course explores literary and film studies of the Portuguese-speaking world. Taught in English or Portuguese, this course counts toward major or minor credit in Latin American and Caribbean Studies, the minor in Portuguese, and/or world literature/world film. May be repeated to a maximum of six semester hours.

Russian

Russian Language

RUS 1120. Elementary Russian I (4). This course introduces basic Russian. Students with high school language experience or equivalent should consult the department for placement. May not be taken by native speakers. May not be taken concurrently with RUS 1121 and/or 2220.

RUS 1121. Elementary Russian II (4). Prerequisite: RUS 1120 or equivalent. This course is a continuation of RUS 1120. May not be taken by native speakers. May not be taken concurrently with RUS 1120 and/or 2220.

RUS 2220. Intermediate Russian (4). Prerequisite: RUS 1121 or equivalent. This course focuses on grammar, reading, and conversation. May not be taken by native speakers. May not be taken concurrently with RUS 1120 and/or 1121.

RUS 2330. Russian Grammar and Popular Culture (3). Pre- or corequisite: RUS 2220. This multimedia course offers a thorough overview of grammar and basic cultural literacy. Language structures are studied through popular fiction and film genres. Students produce a short film in Russian.

RUS 3240. Reading and Conversation (3). Prerequisite: RUS 2220 or equivalent. In this course, oral expression is emphasized.

RUS 3400. Conversation and Composition (3). Pre- or corequisite: RUS 2330 or equivalent. This course focuses on oral expression, writing practice, and review of grammar.

RUS 3420. Russian Grammar and Composition (3). Pre and/or Corequisites: RUS 2330 (C- or better) or equivalent course (C- or better). This course focuses on the development of writing and grammar skills.

RUS 4410r. Advanced Russian Conversation and Composition (3). Prerequisite: RUS 3400. This course focuses on the styles and levels of oral expression on a wide range of topics. May be repeated to a maximum of six semester hours.

RUS 4421. Advanced Russian Grammar and Composition (3). Prerequisite: RUS 3420. This course focuses on the practical application of advanced language skills.

RUS 4780. Phonetics (3). Prerequisite: RUS 2220 or instructor permission. This course provides an understanding of the phonetic and phonemic structure of Russian with extensive oral practice.

RUS 4840. History of the Russian Literary Language (3). Prerequisite: RUS 3400. This course studies the development of the phonological and grammatical systems from the earliest records to the present.

RUS 4905r. Directed Individual Study (3). In this course, students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

RUS 4930r. Special Topics (3). May be repeated to a maximum of twelve semester hours for the major. Only three semester hours taken in any Summer session count towards the major.

RUS 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine semester hours, three hours of which may be applied to the requirements for the major with permission of the department. All honors work is directed by the student's honors committee.

RUS 4942r. Internship in Applied Russian (1–6). (S/U grade only.) Prerequisite: Advanced standing in Russian. This course provides academic credit for students working in governmental agencies or private business where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

Russian Courses in Translation

RUT 3110. Russian Literature in English Translation (3). This course focuses on readings and discussion of major Russian literary works.

RUT 3504. Modern Russian Life (3). This course is an overview of current social and cultural issues in Russian, including the legacy of the Soviet period, the relationship between literature and daily life, women's issues, ecology, mass media, and the efforts of the country to define itself in its new setting and role. No knowledge of Russian is required. May count toward the Russian major. Taught in English.

RUT 3505. Russian Culture and Civilization (3). This course examines the Russians, their history, culture, and traditions, from the Middle Ages to the present. Fiction and film give students a perspective from the "inside." Taught in English.

RUT 3514. Russian Folklore and Fairy Tales (3). This course considers a range of critical approaches and provides a general introduction to the study of folk belief, folklore and fairy tales, and their continuing influence in Russian and world culture. The course focuses primarily on Russian folk and fairy tales, but also includes cross cultural comparisons. Taught in English.

RUT 3523r. Russian Cinema (3). This course consists of viewing and discussion of Russian classics and contemporary films. Credit may be applicable to the Russian major. Knowledge of Russian is not required. May be repeated to a maximum of six semester hours.

RUT 3800. Introductory Russian to English Translation (3). This course focuses on the essentials of translation techniques. Requires grade of "B" or better in RUS 2220 (or equivalent) or permission of the instructor.

RUT 4213r. Russian Love Prose in English Translation (3). This course explores the development of the Russian love prose in the 19th-21st centuries in such literary trends and movements as Romanticism, Realism, Symbolism, Silver Age, Socialist Realism, Soviet Underground, and Postmodernism. May be repeated to a maximum of six semester hours when content varies.

Russian Literature (Writing)

RUW 3100. Survey of Russian Literature I (3). This course surveys representative works of Russian 19th and early 20th century fiction. Taught in Russian.

RUW 3101. Survey of Russian Literature II (3). This course surveys representative works of Russian 20th century short and long fiction. Taught in Russian.

RUW 4470r. Modern Russian Literature (3). Prerequisite: RUW 3100 and RUW 3101, or equivalent. This course studies the great works of major Russian writers of the 19th and 20th centuries, encompassing study of specific movements such as Romanticism, Realism, Modernism, and Socialist Realism. May be repeated to a maximum of nine semester hours.

Slavic

SLL 3500. Slavic Culture and Civilization (3). This course examines the Slavic peoples, their cultures and traditions, from prehistory to present day. Novels and film give students a perspective from the "inside." Taught in English.

SLL 3510. The Slavic Vampire (3). This course is an exploration of the myth of the Vampire, from its origins in Slavic folklore to its appropriation by the West. It examines why the Vampire has endured not only in Eastern Europe but also in the Western imagination. Taught in English.

SLL 4905r. Directed Individual Study (3). This course allows students to arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum. May be repeated to a maximum of six semester hours.

Spanish

Spanish Language

SPN 1120. Elementary Spanish I (4). This course is the first of a three-semester sequence of courses for students with no prior knowledge of the Spanish language, either at the high-school or native-speaker level. The course emphasizes oral communication and grammatical expertise, as well as listening comprehension. Students read short texts and write paragraphs and short compositions in Spanish. May not be taken concurrently with SPN 1121, 1124, and/or 2220. May not be taken by native speakers. Some sections may be computer-assisted.

SPN 1121. Elementary Spanish II (4). Prerequisite: SPN 1120 or equivalent. This course emphasizes oral communication and grammatical expertise, as well as listening comprehension. Students read short texts and poems and write compositions in Spanish. May not be taken by native speakers. May not be taken concurrently with SPN 1120, 1124, and/or 2220.

SPN 2160. Spanish for Careers (4). Prerequisites: SPN 1120 and SPN 1121, or SPN 1124, or instructor permission. This course introduces students to linguistic and cultural skills in Spanish needed for specific work environments such as law enforcement, education, or medicine. Course content varies with semester. May not be taken by native speakers. With approval of the department, may fulfill the Arts and Sciences language requirement.

SPN 2220. Intermediate Spanish (4). Prerequisite: SPN 1121 and SPN 1124 or equivalent. This course emphasizes oral communication and grammatical expertise, as well as listening comprehension. Students read short stories, poems, and articles, and write extended compositions and papers in Spanish. May not be taken concurrently with SPN 1120, 1121, and/or 1124. Not open to native or heritage speakers of Spanish.

SPN 2240. Intermediate Spanish II (3). Prerequisite: SPN 2220 or equivalent. This course completes the intermediate Spanish skills sequence and finishes the review of the grammar sequence begun in SPN 2220. Students deepen their functional skills in comprehending, speaking, reading, and writing Spanish and gain an overview of Hispanic culture in various countries. Not open to native or heritage speakers of Spanish.

SPN 2340. Basic Spanish for Bilingual/Heritage Speakers (3). Enrollment requirement: This course is designed for students who wish to fulfill the language requirement or pursue a minor/major in Spanish and grew up speaking Spanish, but have not taken any Spanish courses, or may have started the basic Spanish course sequence outside FSU. This is the first course of a two-course sequence intended for bilingual and heritage Spanish speakers. This intermediate course provides bilingual and heritage Spanish speakers with opportunities to study and analyze spoken, oral, and written Spanish in an academic setting.

SPN 3300. Spanish Grammar and Composition (3). Prerequisite: A grade of "C–" or higher in SPN 2240. This course covers the theory and practice of Spanish grammar and its application to compositions. Can be taken concurrently with SPN 3400.

SPN 3350. Spanish for Heritage Speakers (3). This course offers intensive Spanish for heritage speakers who have had little or no formal training in the language. Writing skills are emphasized over oral communication.

SPN 3400. Spanish Reading and Conversation (3). Prerequisite: A grade of "C–" or higher in SPN 2240. This course develops communicative proficiency and accuracy in both reading and writing Spanish. Can be taken concurrently with SPN 3300. Not open to native or heritage speakers of Spanish.

SPN 3440. Language and Culture in Business (3). Prerequisites: SPN 3300 and SPN 3400, or SPN 3350. This intermediate-level language course is aimed at raising cross-cultural awareness in international business. It also is designed to better prepare students to meet the challenges of our global economy.

SPN 4036. Spanish Medical Interpreting (3). Prerequisite: SPN 3300 or SPN 3350. This course is designed to provide Spanish speaking students with training in medical terminology, cultural issues in medicine, and healthcare interpreting skills.

SPN 4420. Advanced Spanish Composition and Translation (3). Prerequisites: SPN 3300 (C- or better) and SPN 3400 (C- or better) or SPN 3350 (C- or better). This course focuses on the development of advanced Spanish composition, editing, and translation skills. The course, taught in Spanish, includes specialized vocabulary, grammar review, sentence and paragraph structure study and development. Completion of drafts, editing, revisions, of topic-based compositions and translation assignments from diverse sources is required.

SPN 4444. Business Writing in Spanish (3). Prerequisites: SPN 3300 and SPN 3400. This course covers letter writing, business terminology, as well as conducting business in the Hispanic world.

SPN 4540r. Regional Cultural Studies (3). Prerequisites: SPN 3300 and SPN 3400, or SPN 3350. This course provides students with exposure to texts and cultural productions from specific regions of Latin America, Spain, or the Latino enclaves in the U.S. Texts may include historical documents, legends and myths, poetry, fiction, essays, or popular music. May be repeated to a maximum of six semester hours. Duplicate registration allowed in the same semester.

SPN 4700. Introduction to Hispanic Linguistics (3). Prerequisites: SPN 3300 and SPN 3400; or SPN 3500 (for Spanish heritage speakers); LIN 3041 (highly recommended). This course examines the origin, development and present-day variation of the Spanish language and provides an introduction to Spanish linguistics from a theoretical and empirical point of view.

SPN 4780. Spanish Phonetics (3). Prerequisites: SPN 3300 and SPN 3400, or SPN 3350. This course involves training in the production of acceptable speech sounds in Spanish and a knowledge of when to use those sounds (allophonic distribution). The class meets both in the classroom and in the language laboratory. The nonnative speaker can profit most from this course.

SPN 4840. History of the Spanish Language (3). Prerequisites: LIN 3041, SPN 3300, SPN 3350, and SPN 3400. This course examines the origin and development of Spanish in the context of Indo-European and Romance languages. The course explores the linguistic changes that took place from Latin to Spanish, and compares them to those undergone by related (co)dialects and languages.

SPN 4905r. Directed Individual Study in Hispanic Language, Linguistics or Literature (3). Prerequisites: Approval of faculty member, the divisional coordinator, and the Associate Chair for Undergraduate Studies. This course in for advanced students who arrange a specialized study with a faculty member, outside or in addition to, regular studies. The course needs approval and may be repeated to a maximum of six semester hours.

SPN 4930r. Studies in Hispanic Language (3). Prerequisites: SPN 3300 and SPN 3400 or instructor permission. May be repeated when content varies to a maximum of six semester hours.

SPN 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine semester hours, three hours of which may be applied to the requirements for the major with permission of the department. All honors work is directed by the student's honors committee.

SPN 4942r. Internship in Applied Spanish (1–6). (S/U grade only.) Prerequisite: Advanced standing in Spanish. This course provides academic credit for students working in governmental agencies or private enterprise where students employ the foreign language. Departmental permission required. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

Spanish Literature in Translation

SPT 3100. Spanish Literature in Translation (3). This course is an introduction to the rich literary traditions of Spain through the study of major works and writers of Spain's literary history. Students also learn important aspects of Spanish culture. The course is conducted in English. Does not count toward major or minor in Spanish.

SPT 3130. Latin American Literature in Translation (3). This course includes the reading and study of some of the outstanding modern prose writers of Latin America, such as Azuela, Carpentier, Borges, Rulfo, Fuentes, Garcia Marquez, Machado de Assis, and Amado. The course is taught in English.

SPT 3391r. Hispanic Cinema (3). This course is a study of the films, movements and directors of Hispanic cinema. May be repeated to a maximum of six semester hours. Taught in English.

SPT 3503. Introduction to Hispanic Cultural Analysis (3). This course provides students with opportunities for detailed cultural analysis in the various geographies, historical contexts and intellectual endeavors of the Hispanic world.

Spanish Literature (Writings)

SPW 3030. Approaching Hispanic Literature (3). Prerequisites: SPN 3300, SPN 3350, or instructor permission. This course is a multi-genre introduction to literary analysis. It seeks to further develop basic language and critical thinking skills, understanding of Hispanic cultures, and interpretation of Hispanic literature.

SPW 3103. Readings from Early Iberia (3). Prerequisites: SPN 3300 and SPN 3400; or SPN 3350. Through a variety of readings and written and oral activities, this course provides students with a fundamental knowledge of the critical issues related to the early Iberian peninsula, from approximately 1000 to 1700 A.D. Such topics may include medieval multiculturalism, the cultural role of the Church, and culture in an age of territorial expansion.

SPW 3104. Readings from Iberia (3). Prerequisites: SPN 3300 and SPN 3400; or SPN 3350. This course guides students through close readings of a wide-ranging selection of texts from all genres and periods of Iberian literature, as well as the critical issues involved in interpreting them.

SPW 3132. Readings from Early Spanish America (3). Prerequisites: SPN 3300 and 3400; or SPN 3350. Through a variety of readings and written and oral activities, this course provides students with knowledge about early Spanish America, from approximately 1492 to 1800. Topics may include the conquest, slavery, mestizaje, founding cultural institutions, and the aesthetics and ideologies of nation-building.

SPW 3493. Readings from Spanish America (3). Prerequisites: SPN 3300 and SPN 3400; or SPN 3350. This course offers a selective study of Spanish American literary production from the Colonial Encounter to the Present. Course readings will be analyzed taking into account hegemonic structures of power including colonialism, slavery, and patriarchy. This course is taught in Spanish.

SPW 4140r. The Poetics of Hispanic Love and Violence (3). Prerequisite: One 3000-level literature course. This course explores poems and other forms of expression that address the complexities of the sentiments of love and violence in the manner that it has been expressed in Hispanic culture. It introduces and engages these topics as they relate to issues of gender, national politics, and culture from Latin America and Spain. May be repeated to a maximum of six semester hours.

SPW 4150r. Transatlantic Encounters (3). Prerequisite: One 3000-level literature course. This course emphasizes the cultural and historical connection between Spanish America and Spain. Topics of study may include the subaltern in early Spain and Spanish America, nineteenth-century nation identities, and Modernismo/Generacion del 98. May be repeated to a maximum of six semester hours.

SPW 4190r. Special Topics in Hispanic Languages and Literature (3). Prerequisite: One 3000-level course. This course consists of variable topics chosen from Spanish language movements, periods, figures, and problems. May be repeated to a maximum of six semester hours.

SPW 4301r. Hispanic Culture and Performance (3). Prerequisite: One 3000-level literature course. This course studies dramatic works or performances from a Spanish-speaking region within a particular period, including its socio-historical, literary, biographical, and cultural contexts. Students may participate in a workshop production of the work(s) studied. May be repeated to a maximum of six semester hours.

SPW 4774. Cuba: Diaspora, Race, and Cultural Identity (3). Prerequisite: Any 3000-level SPW course or instructor permission. This course analyzes Cuban literature, from Christopher Columbus' arrival in 1492 to the 21st Century, with a focus on the formation of identity by diasporic subjects. The course examines cultural, economic, and social processes, such as colonialism, slavery, and immigration, using an interdisciplinary approach. Post-Colonial Studies and Cultural Studies will serve as theoretical support to analyze discursive constructs such as identity, race, and nation.

SPW 4481. Contemporary Spanish Women Writers (3). Prerequisite: One 3000-level literature course. This course introduces students to the works of 20th-century Spanish women writers and the critical attention they have received.

SPW 4491. Spanish-American Women Writers (3). Prerequisite: One 3000-level literature course. This course studies Spanish-American women writers, varying from year to year, focusing on prose fiction, non-fiction and/or drama. Supplementary readings from critical and theoretical works.

SPW 4510. Latin American Indigenous Mythology (3). Prerequisite: One 3000-level literature course. This course, which is taught in Spanish, explores the literary and humanistic implications of Latin American Indigenous mythology. The course focuses on the ancestral, indigenous cultures of Amazonia but also looks at myths from various groups throughout the Americas.

SPW 4770. Caribbean Literature (3). Prerequisites: One 3000-level literature course. This course focuses on the reading, discussion, and analysis of works by Hispanic Caribbean authors, with an emphasis on the history, cultural life, and social conditions of Cuba, Puerto Rico, and the Dominican Republic as it is reflected in the literature.

SPW 4930r. Studies in Hispanic Literature (3). Prerequisite: One 3000-level literature course. May be repeated to a maximum of nine semester hours.

Graduate Courses

Chinese

CHI 5505r. Readings in Chinese Literature (3).
CHI 5856r. Classical Chinese (3).
CHI 5906r. Directed Individual Study (3). (S/U grade only.)
CHI 5910r. Supervised Research in Chinese (1–5). (S/U grade only.)
CHI 5940r. Teaching Practicum (0–5). (S/U grade only.)
CHT 5935r. Studies in Premodern Chinese Literature and Culture (3).

French

French and Francophone Language and Culture

FRE 5060. Graduate Reading Knowledge in French (3). (S/U grade only.)
FRE 5069r. Reading Knowledge Examination (0). (S/U grade only.)
FRE 5505r. French and Francophone Cultures (3).
FRE 5535. Post-Colonial Cultures in France (3).
FRE 5755. Old French (3).
FRE 5756. Readings in Old French Language (3).
FRE 5900r. Studies in French Language and Literature (3).
FRE 5940r. Teaching Practicum (0–5). (S/U grade only.)

French Literature in Translation

FRT 5555. Immigration and National Identity in France (3).

French and Francophone Literatures, Cultures and Civilizations

FRW 5415. Old French Literature I (3).
FRW 5419r. Studies in Medieval French Literature: Figure or Genre (3).
FRW 5586r. Studies in 16th-Century Literature: Figure or Movement (3).
FRW 5587r. Studies in 17th-Century Literature: Figure or Movement (3).
FRW 5588r. Studies in 18th-Century Literature: Figure or Movement (3).
FRW 5595r. Studies in 19th-Century French Literature (3).
FRW 5599r. Studies in 20th-Century Post War (1940) French Literature: Figure or Movement and/or Genre (3).
FRW 5765r. Studies in Francophone Literatures and Cultures (3).
FRW 5775r. Francophone Caribbean/African Cultures (3).
FRW 5906r. Directed Individual Study (3). (S/U grade only.)
FRW 5910r. Supervised Research in French (1–5). (S/U grade only.)
FRW 6938r. Graduate Seminar in French Literature (3).

General Foreign Language Courses

ASN 5216. Advanced Seminar in East Asian Languages and Cultures (3).
ASN 5825r. East Asian Humanities (3).
FOL 5934r. Problems and Studies in Modern Languages and Literature (3).
FOT 5805. Translation Theory and Practice (3).
FOW 5025. Critical Theory and Its Application to Non-English Literatures (3).
FOW 5595. Transnational Literature (3).
FOW 6907r. Directed Readings (1–6). (S/U grade only.)
HUM 5938r. Interdisciplinary Topics (3).

German

German Language

GER 5060. Graduate Reading Knowledge in German (3). (S/U grade only.)
GER 5069r. Reading Knowledge Examination (0). (S/U grade only.)
GER 5425. Essay Workshop (3).
GER 5906r. Studies in German Languages and Literature (3).
GER 5940r. Teaching Practicum (0–5). (S/U grade only.)
GER 6925r. Tutorial in Professional Issues (0–2). (S/U grade only.)

German Literature in Translation

GET 5135. German Literature in Translation (3).
GET 5525r. German Cinema (3).
GET 5588r. Studies in a Theme (3).

German Literature (Writings)

GEW 5208r. Studies in a Genre (3).
GEW 5595r. Studies in a Theme (3).
GEW 5596r. Studies in an Author or Movement (3).
GEW 5597r. Studies in a Period: Special Topics (3).
GEW 5906r. Directed Individual Study (3). (S/U grade only.)
GEW 5915r. Supervised Research (1–5). (S/U grade only.)

Italian

Italian Language

ITA 5060. Graduate Reading Knowledge in Italian (3). (S/U grade only.)
ITA 5069r. Reading Knowledge Examination (0). (S/U grade only.)
ITA 5455r. Advanced Italian Composition and Style (3).
ITA 5505r. Italian Culture and Civilization (3).
ITA 5900r. Studies in Italian Language and Literature (3).
ITA 5940r. Teaching Practicum (0–5). (S/U grade only.)

Italian Literature (Writings)

ITW 5415r. Italian Renaissance Literature (3).
ITW 5445r. 18th- and 19th-Century Italian Literature (3).
ITW 5485r. 20th-Century Italian Literature (3).
ITW 5486r. Readings in Contemporary Italian Prose (3).
ITW 5505. Italiane, italiani! – Gender in Italian Culture (3).
ITW 5705r. The Trecento Writers (3).
ITW 5905r. Directed Individual Study (3). (S/U grade only.)
ITW 5910r. Supervised Research in Italian (1–5). (S/U grade only).

Japanese

JPN 5900r. Studies in Japanese Language and Literature (3).

JPN 5906r. Directed Individual Study (3). (S/U grade only.)
JPN 5915r. Supervised Research (1–5). (S/U grade only.)
JPN 5940r. Teaching Practicum (0–5). (S/U grade only.)
JPT 5935r. Special Topics (3).
JPW 5300r. Traditional Japanese Literature (3).
JPW 5400. Life-Writing in Japan (3).

Linguistics

LIN 5035. Historical/Comparative Linguistics (3).
LIN 5045. Descriptive Linguistics (3).
LIN 5050. East Asian Linguistics (3).
LIN 5305. Patterns of Sounds (3).
LIN 5510. Transformational Grammar (3).
LIN 5744. Introduction to Language, Language Learning, and Language Instruction (3).
LIN 5908r. Directed Individual Study (3). (S/U grade only.)
LIN 5910r. Supervised Research (1–5).
LIN 5932r. Topics in Linguistics (3).

Portuguese (Brazilian)

Portuguese Language

POR 5069r. Graduate Reading Knowledge Examination: Portuguese (0). (S/U grade only.)
POR 5930r. Studies in Portuguese (Brazilian) Language and Literature (3).
POR 5940r. Teaching Practicum (0–5). (S/U grade only.)

Portuguese (Writings)

POW 5905r. Directed Individual Study (3). (S/U grade only.)
POW 5910r. Supervised Research in Portuguese (1–5). (S/U grade only)

Russian

Russian Language

RUS 5069r. Reading Knowledge Examination (0). (S/U grade only.)
RUS 5415r. Graduate Russian Conversation and Comprehension (3). (S/U grade only.)
RUS 5845. History of the Russian Language and Reading of Old Russian Texts (3).
RUS 5940r. Teaching Practicum (0–5). (S/U grade only.)
RUS 6925r. Tutorial in Professional Issues (0–2). (S/U grade only.)

Russian Literature in Translation

RUT 5115. Seminar: Russian Literature in English Translation (3).

Russian Literature (Writings)

RUW 5335. Russian Poetry (3).
RUW 5375. Russian Short Story (3).
RUW 5559r. Seminar in 19th-Century Russian Literature (3).
RUW 5579. Modern Russian Literature (3).
RUW 5906r. Directed Individual Study (3). (S/U grade only.)
RUW 5910r. Supervised Research in Russian (1–5). (S/U grade only.)
RUW 5930r. Special Topics (3).

Slavic

SLL 5906r. Directed Individual Study (3). (S/U grade only.)
SLL 5915r. Supervised Research (1–5). (S/U grade only.)

Spanish

Spanish Language

SPN 5060r. Graduate Reading Knowledge in Spanish (3). (S/U grade only.)
SPN 5069r. Reading Knowledge Examination (0). (S/U grade only.)
SPN 5776. Acquisition of Spanish Phonology (3).
SPN 5785. Acoustic Phonetics of Spanish (3).
SPN 5795. Phonology of Spanish (3).
SPN 5805. Spanish Morphology and Syntax (3).
SPN 5845. History of the Spanish Language (3).
SPN 5900r. Studies in Hispanic Language and Literature (3).
SPN 5940r. Teaching Practicum (0–5). (S/U grade only.)
SPN 6925r. Tutorial in Professional Issues (0–2). (S/U grade only.)

Spanish Literature (Writings)

SPW 5195r. Studies in Hispanic Literatures and Cultures (3).
SPW 5216. Spanish Golden Age Prose (3).
SPW 5275r. Spanish 20th-Century Novel (3).
SPW 5315. Spanish Golden Age Theater (3).
SPW 5337. Spanish Poetry through 1700 (3).
SPW 5338r. Spanish Poetry from 1700 to Present (3).
SPW 5356. Spanish American Poetry (3).
SPW 5357. Contemporary Spanish American Poetry since Modernism (3).
SPW 5365. Spanish American Prose: Nonfiction (3).
SPW 5385. Early and Modern Spanish American Prose Fiction to 1927 (3).
SPW 5386. Contemporary Spanish American Prose Fiction since 1927 (3).
SPW 5405. Medieval and Early Renaissance Spanish Literature (3).
SPW 5486. Contemporary Spanish Women Writers (3).
SPW 5496. Spanish-American Women Writers (3).
SPW 5586. Critical Inquiries into the Early Hispanic Episteme (3).
SPW 5606. Cervantes (3).
SPW 5908r. Directed Individual Study (3). (S/U grade only.)
SPW 5910r. Supervised Research in Spanish (1–5). (S/U grade only.)
SPW 6806. Research Criticism and Professional Issues (3). (S/U grade only.)
SPW 6934r. Topics in Hispanic Language and Literature (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MOLECULAR BIOLOGY:
see Biological Science

MOLECULAR BIOPHYSICS, PROGRAM IN:
see *Graduate Bulletin*

MOTION PICTURE ARTS
Undergraduate Programs

College of Motion Picture Arts

Website: *http://film.fsu.edu/*

Dean: Reb Braddock; **Associate Dean:** Dr. Andrew Syder; **Assistant Dean:** Tony Ciarlariello; **Associate Professors:** Baggott; **Filmmakers in Residence:** Allen, Cawood, Cohen, Gómez-Mouakad, Hoffman, Honn, Kaleko, Marcks, Maurer, Mendez, Meyer, Mikota, Nunez, Nutting, Patterson, Riker, Robkin, Scoon, Slade, E. Stone, J. Stone, Tripp, Vargo, Williams

The Florida State University College of Motion Picture Arts offers a Bachelor of Fine Arts (BFA) degree at the undergraduate level, with majors in Production and in Animation and Digital Arts. The BFA programs combine schooling in motion picture production with solid grounding in liberal studies. The curriculum of each program directs students through a course of study that teaches the special language of motion picture storytelling through the production of a series of short, narrative projects. The College funds virtually all student production expenses, including those of the thesis projects, a portion of production design, and catering. Screenwriting, production, and film analysis are each viewed as part of an integrated process. The goal of the programs is to produce educated, literate, and creative artists who are prepared for careers in the motion picture industry. Core courses in the BFA majors include producing, directing, screenwriting, editing, camera and lighting, sound, production management, animation, visual effects, motion picture history, theory, and aesthetics.

The purpose of this curriculum is to furnish the conceptual framework, the professional training, and the working environment for eventual participation in a profession that is a powerful influence in our culture. The goals of the College of Motion Picture Arts are to fully educate students and to help them become integral members of the academic community of Florida State University, responsible members of the entertainment profession, and participants in a creative and artistic process.

The program in Motion Picture Arts is under constant review and subject to change. For further information, please refer to *https://film.fsu.edu/programs/*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in the College of Motion Picture Arts satisfy this requirement by earning a grade of "C–" or higher in FIL 2043r. History and Practice of Visual Effects and Animation.

Facilities

The College of Motion Picture Arts operates extensive production facilities for its graduate and undergraduate programs in *University Center A* on Florida State University's campus in Tallahassee, and in an off-campus site in Midway, Florida, known as the Torchlight Center.

Considered one of the finest facilities in the world devoted exclusively to film education, it includes: professional sound stages, a green-screen/motion capture stage, a cinematography and set operations teaching stage, grip and electric trucks fully equipped with industry standard G&E equipment, an ADR and Foley recording studio, re-recording stages, QC and dailies screening rooms, digital animation/VFX production labs, color correction suites, a 120-seat screening room, digital animation/VFX production suites, seminar rooms, writer rooms, interactive classrooms, individual post production suites, teaching labs, and student production planning rooms.

The College is equipped for and supports industry-standard acquisition in HD, 2k, 4k, and 8k digital formats, and digital sound recording formats.

Requirements for a Major in Motion Picture Arts - Production

The degree will require completion of a minimum of 120 semester hours. For a sample listing of the required curriculum plan, please refer to *https://film.fsu.edu/programs/*.

To fulfill the requirements of the Production major in the College of Motion Picture Arts, a student must:

1. Possess sufficient mobility, strength, and dexterity in both hands and legs to lift, carry, and operate filmmaking equipment
2. Possess sufficient visual capacity to perform the functions of a film crew member without the assistance of visual aids other than contact lenses or eyeglasses
3. Possess sufficient aural capacity to hear and understand spoken instructions without assistance other than a hearing aid
4. Be able to comprehend oral and written instructions, policies, and procedures related to the College of Motion Picture Arts, filmmaking protocols, and the operation of equipment
5. Possess the ability to adequately communicate orally, in English, with others

Requirements for a Major in Motion Picture Arts - Animation and Digital Arts

The degree will require completion of a minimum of one 120 semester hours. For a sample listing of the required curriculum plan, please refer to *https://film.fsu.edu/programs/*.

To fulfill the requirements of the Animation and Digital Arts major in the College of Motion Picture Arts, a student must:

1. Possess sufficient mobility, strength, and dexterity in both hands and legs to lift, carry, and operate filmmaking equipment
2. Possess sufficient visual capacity to perform the functions of a film crew member without the assistance of visual aids other than contact lenses or eyeglasses
3. Possess sufficient aural capacity to hear and understand spoken instructions without assistance other than a hearing aid
4. Be able to comprehend oral and written instructions, policies, and procedures related to the College of Motion Picture Arts, filmmaking protocols, and the operation of equipment
5. Possess the ability to adequately communicate orally, in English, with others

Internships

After required coursework, students are encouraged to complete their program of study by enrolling in the program's internship class to apply their learning in a real-world setting in the industry. This capstone experience will position students for greater chances of success in their careers.

Admission

Admission to the College of Motion Picture Arts is limited access, making admission highly selective and competitive. Applicants must apply to Florida State University's Office of Admissions by their Fall admission deadline and must submit a separate application to the College of Motion Picture Arts by the same Fall admissions deadline used by the Florida State University Office of Admissions. As a part of the College of Motion Picture Arts application, each applicant must submit a résumé, three letters of recommendation, a creative portfolio (which can include film work, photographs, animations, etc.), a writing sample adhering to the given prompt, and a 500–1000 word essay describing his or her motivation for becoming a filmmaker. Any application that does not contain all these items will be considered incomplete and will be denied automatically. All application materials must be submitted online via the application portal for the applicant to be considered for admission the following Fall semester. More information concerning the undergraduate application is available online at *http://film.fsu.edu/admissions*.

Freshmen majors will not enroll in major classes prior to their sophomore year in order to concentrate full-time on fulfilling their general education requirements.

Grade Requirements

All Motion Picture Arts majors must maintain a 3.0 cumulative grade point average in all coursework, including general education requirements taken during their freshman year at the University. Any student who falls below that 3.0 cumulative grade point average at any point in their studies will be placed on academic probation. Failure to bring the grade point average above a 3.0 may result in dismissal from the College of Motion Picture Arts.

Retention

All students must meet the University's minimum retention standards as well as the College of Motion Picture Arts Professional Code of Conduct. In addition, continuation as a major will depend on the development of each student's talents, skills, professional discipline, and academic record. A student's work and commitment are under continuous review, and any candidate who fails to maintain high standards will be dismissed from the program.

Probation and Dismissal

Motion Picture Arts majors will adhere to the University Academic Honor System, Student Conduct Code, Summons to Responsible Freedom, and the College of Motion Picture Arts Professional Code of Conduct.

Each semester, the faculty will meet to discuss the work, behavior, grades, and progress of students in the major. At any point in the semester, if the faculty determines that a student's behavior fails to adhere to the College's Professional Code of Conduct, the student may be issued a verbal warning or a written remediation plan. Failing to satisfy the terms of a remediation plan may result in dismissal from the program.

Behavior so negative, disruptive, or destructive as to compromise the work of fellow students or the effectiveness of the faculty may constitute grounds for immediate dismissal without any prior period of warning or remediation. Peer evaluations may be considered in this evaluation process.

Any unauthorized use, possession, or willful destruction of College of Motion Picture Arts equipment, facilities, media, or finished film will result in immediate notification to the proper authorities. The outcome of their decisions will determine the actions of the College of Motion Picture Arts with respect to the student(s) involved.

If the cumulative GPA falls below 3.0, it will result in academic probation. Students will be reinstated in good standing if the cumulative major GPA rises to 3.0 by the end of the following semester. Failure to raise the GPA may result in dismissal from the program.

Liberal Studies for the 21st Century Program

All undergraduate majors in the College of Motion Picture Arts are required to meet Florida State University's liberal studies requirements as specified in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.

Transfer Students

The College of Motion Picture Arts will accept transfer students for admission each Fall semester, and those students must have completed at least 30 semester hours of their general education requirements prior to their initial Fall semester in the College, as well as have at least a 3.0 or better cumulative grade point average. Applications must be submitted separately to both the College of Motion Picture Arts and the Florida State University Office of Admissions. The College of Motion Picture Arts application is available online at *http://film.fsu.edu/apply/admissions*. Transfer students are subject to the same application requirements and must submit the same application materials as those applying as a freshman applicant.

Financing and Ownership of Student Films

The College of Motion Picture Arts pays for virtually all student laboratory, workshop, and thesis project production expenses at the graduate and undergraduate level. So far as it is known, it is the only film school in the United States to do so.

Under State of Florida law, regulations, and rules, all films and videos produced by Motion Picture Arts students become property of Florida State University and are copyrighted in the name of Florida State University. The same regulations and rules provide that in the event of the commercial exploitation of these films, any net revenues derived from a particular film will be split in a proportion to be determined by Florida State University (currently 50/50) between the College of Motion Picture Arts and all of the graduating student workers on the film including, but not limited to, the writer, director, producer/production manager, sound designer, editor, cinematographer, art director, and musical score composer.

State law provides that any stand-alone screenplays created by students will remain the student's property and may be exploited commercially by them; however, screenplays, script, and story ideas that are proposed and incorporated by students into their workshop or thesis films become the property of Florida State University and will be copyrighted with the University's name.

State law requires that all entering students be provided with a copy of the relevant regulatory rule and that applicants for admission to the College of Motion Picture Arts sign a statement acknowledging their receipt and understanding of the rule prior to official admission and enrollment.

Honors in the Major

The College of Motion Picture Arts offers an Honors in the Major program to encourage talented seniors to write a feature-length screenplay or undertake independent and original research as part of the Bachelor of Fine Arts degree. Specific requirements for Honors in the Major are discussed with qualified students during their junior year. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Health Insurance

Students seeking degrees in certain majors, including film, assume any exposure to the particular hazards associated with that major. As protection for our students, the College of Motion Picture Arts requires that majors present proof of health and accident insurance prior to registration in the Fall semester each year. Students are expected to maintain this insurance throughout their enrollment in the program and keep the information updated with the Associate Dean's Office.

Film Studies Minor in the College of Motion Picture Arts

The film studies minor will give students the opportunity to select a program of study that examines the many facets of American and international cinema. The interdisciplinary nature of the program allows students to experience different approaches to film study: film and cultural differences, basic film vocabulary, film history, film and social forces, film genres, film theories, film directors, and film aesthetics. No production or animation classes are offered as part of the film studies minor.

Requirements for a Minor in Film Studies

The interdisciplinary minor requires the completion of fifteen semester hours in courses approved for film studies. All students are required to take either FIL 2001, Introduction to Cinema Studies or FIL 2030, History of Motion Picture. The remaining hours may be selected from the approved film studies offerings. Courses counted toward the film studies minor cannot be counted toward a student's major. All film minor hours must be taken at Florida State University.

For additional information on a film minor and to view the most up-to-date course listings, please visit *https://film.fsu.edu/programs/film-studies-minor*.

Definition of Prefix

FIL—Film

IDS—Interdisciplinary Studies

Undergraduate Courses

FIL 2001. Introduction to Cinema Studies: Analysis and Practice (3). This course introduces students to film analysis theories and techniques, including the basics of dramatic structure, genre, prevalent filmmaking theories, and film production processes. Through weekly film screenings, class discussion, and hands-on production exercises, students develop and practice skills to help them compare and interpret films representing a variety of genres, aesthetic traditions, and cultural contexts.

FIL 2030. History of Motion Pictures (3). This course is an overview of international film as an industry, mass medium, and art form.

FIL 2043r. History and Practice of Visual Effects and Animation (1–6). Prerequisite: Major status. This course introduces computer graphics in the context of historical approaches to visual effects and animation. Students apply historical techniques to create original animations and visual effects.

FIL 2090r. Professional Communication (1). Prerequisite: Major status. This course provides instruction in oral presentation and communication skills for professional settings in the motion picture industry. May be repeated to a maximum of three semester hours.

FIL 2110r. Story Development and Screenwriting I (1–6). Prerequisite: Major status. This course introduces the basic techniques of story development and screenwriting through exercises in story structure, dialogue, and character development.

FIL 2113Lr. Screenwriting Workshop (1–6). Prerequisite: Major status. This course provides a story room workshop in which students develop original story concepts and scripts for motion picture shorts. Through a variety of weekly activities and writing assignments, students examine and practice a variety of story development techniques as well as industry standard screenwriting practices. May be repeated to a maximum of twelve semester hours.

FIL 2423. Filmmaking I (3). Prerequisite: Major status. This course provides a basic understanding of film production technology, equipment operation, terminology, and techniques.

FIL 2441Lr. Practicum in Technical Support (1–6). Prerequisite: Major status. This course introduces students to the technical skills and protocols employed in below-the-line (BTL) positions in the motion picture industry. The course stresses the protocols observed by below-the-line crew to ensure the effective and safe operation of production equipment and adherence to workflows through all stages of production. May be repeated to a maximum of twelve semester hours.

FIL 2481Lr. Acting for Filmmakers (1–6). Prerequisite: Major status. This course instructs students in a variety of actor training techniques that can be used to enhance on-camera performances and directing actors. Students apply course concepts through practical acting exercises. Special focus is given to learning the language of actors and experiencing first-hand the actor approach to a role, the challenges of acting for the camera, the rehearsal process, and script analysis. May be repeated to a maximum of twelve semester hours.

FIL 2533r. Motion Picture Sound (1–6). Prerequisite: Major status. This course teaches the principles and aesthetics of sound and the basic practices involved in creating a motion picture sound track. May be repeated to a maximum of twelve semester hours.

FIL 2552. Film Editing (3). Prerequisite: Major status. This course allows students to analyze, discuss, and put into practice the skills and techniques required to edit a narrative motion picture.

FIL 2557r. Motion Picture Editing (1–6). Prerequisite: Major status. This course teaches introductory principles, aesthetics, and theory of motion picture editing and their application in editing narrative shorts. May be repeated to a maximum of twelve semester hours.

FIL 2710. Visualization I (3). Prerequisite: Major status. This course provides an introduction to the visual communication skills and techniques required for the development and previsualization of narrative motion pictures.

FIL 2726. Compositing I (1–3). Prerequisite: Major status. This course introduces layer-based compositing concepts and techniques, including their application in visual effects for motion pictures.

FIL 2727r. Compositing II (1–3). Prerequisites: FIL 2726 and major status. This course introduces node-based compositing theory and practice with an emphasis on best practices and professional standards used in the visual effects industry. May be repeated to a maximum of six semester hours.

FIL 2730. Introduction to 3D Computer Graphics (3). Prerequisite: Major status. This course provides instruction in using industry-standard 3D tools to generate assets, light scenes, and render images. Students apply course concepts to create an original vfx scene extension shot.

FIL 2731r. Introduction to 3D Computer Animation (1–6). Prerequisite: Major status. This course provides instruction in the foundation principles of animation. Students apply course concepts to create original animation that conveys emotion and demonstrates basic understanding of body mechanics. May be repeated to a maximum of twelve semester hours.

FIL 3132r. Screenwriting II (1–6). Prerequisite: Major status. This course provides conceptual and practical approaches to developing stories intended for intermediate-level short films. May be repeated to a maximum of twelve semester hours.

FIL 3363r. Documentary Filmmaking (1–6). Prerequisite: Major status. This course allows students to view and discuss documentary films from various eras, countries, and points of view as a means of understanding personal aesthetic as a documentary filmmaker. Students plan, script, budget, shoot, edit, and mix documentaries. May be repeated to a maximum of six semester hours.

FIL 3433r. Filmmaking II (1–6). Prerequisite: Major status. This course emphasizes visual storytelling and directing techniques. Students apply concepts by developing and creating motion pictures. Special focus is given to script analysis and interpretation, directing actors, blocking techniques, and methods of visual storytelling. May be repeated to a maximum of twelve semester hours.

FIL 3516r. Film Camera and Lighting (1–6). Prerequisite: Major status. This course provides a theoretical and practical knowledge of all aspects of cinematography: cameras and lenses, film stocks, exposure, lights, lighting, and composition. May be repeated to a maximum of twelve semester hours.

FIL 3641Lr. Motion Picture Production Management (1–6). Prerequisite: BFA Status. This course provides instruction in motion picture production management roles and chain-of-title responsibilities in pre-production, production, and post-production such as script breakdowns, scheduling, budgeting, daily production protocols, post-production supervision and final delivery. Can be repeated to a maximum of fifteen semester hours.

FIL 3690r. Digital Studio Department Leadership (1–12). Prerequisites: Major status and instructor permission. This course provides instruction and practice in the leadership and management of departments within the field of visual effects and animation. The course also addresses positions such as digital effects producer, supervisor, as well as modeling, animation, and compositing leads. May be repeated to a maximum of twelve semester hours.

FIL 3702Lr. Lighting, Texturing, and Rendering I (1–6). Prerequisites: FIL 2730 and major status. This course provides an introduction to concepts of CG lighting and rendering to enhance original animations and visual effects. The course also addresses basic lighting theory needed to create virtual lighting effects. May be repeated to a maximum of six semester hours.

FIL 3711. Visualization II (3). Prerequisite: Major status. This course provides an intermediary-level instruction in the visual development skills required for the preproduction and previsualization of narrative motion pictures.

FIL 3725r. Stop Motion Animation (1–6). Prerequisites: FIL 2043, FIL 2726 and major status. This course teaches principles of stop-motion and forward-animation. Through the creation of original animations, it also explores stop-motion cinematography, Claymation armature and set-construction.

FIL 3736r. Character Animation I (1–6). Prerequisites: FIL 2730, FIL 2731 and major status. This course provides instruction in developing and creating believable and compelling animated characters. Topics and skills covered include body mechanics, facial animation, lip synching, conveying human emotion, acting theory for animators, and production processes from planning shots to final polishing.

FIL 3792r. Visual Effects Aesthetics (1–3). Prerequisites: FIL 2730 and major status. This course provides continuing theory and practice in modeling, texturing, and lighting to create visual effects that are believable and fit the aesthetic style of a given cinematic world. May be repeated to a maximum of nine semester hours.

FIL 3793. Visual Effects Cinematography (3). Prerequisites: FIL 2043, FIL 3516, and major status. This course surveys techniques used in both practical and digital effects cinematography through the hands-on planning and execution of visual effects cinematography projects.

FIL 3803. The Contemporary Cinema: Theory and Practice (3). This course is a review and analysis of post-1950 motion pictures with emphasis on technique and industrial evolutions.

FIL 3833r. Film Styles (3–6). Prerequisite: Major status. This course allows students to analyze motion picture form and content through the styles of selected filmmakers with emphasis on genres, national movements, and other topics of interest. May be repeated to a maximum of six semester hours.

FIL 3922r. Film Genres and Filmmakers (1). Prerequisite: Major status. This course provides students the opportunity to view historical and current films followed by discussions in an academic forum. May be repeated to a maximum of six semester hours.

FIL 3932r. Special Topics (1–12). Prerequisite: Major status. This course is an analysis of specialized topics in motion pictures. May be repeated during the same term to a maximum of twelve semester hours.

FIL 3940r. Acting for the Camera (1-6). Prerequisite: TPP 2100. This course combines fundamental acting technique with the special needs of acting for the camera. The course explores how actors prepare, rehearse, audition, and perform differently in front of the camera as compared to an onstage production. Students engage in acting exercises and scene work, working with film school student directors under the guidance of the instructor. May be repeated to a maximum of fifteen (15) credit hours; repeatable within the same term.

FIL 3963. BFA Qualifying Exam (0). Prerequisite: Major status. This course evaluates the progress of the student and recommends continuance in the film school or directs the student toward other areas of study.

FIL 3965r. BFA Comprehensive Exam (0). (S/U grade only.)

FIL 3971r. Thesis Film Support (1–12). Prerequisite: BFA Admission. This course covers the principles and responsibilities of below-the-line filmmaking roles, as well as the performance of these responsibilities on the set of BFA thesis films. May be repeated to a maximum of twelve semester hours.

FIL 4135. Thesis Development (3). Prerequisite: FIL 2110 and major status. This course teaches conceptual and practical approaches to developing stories intended for short films. Students develop an original screenplay through multiple drafts and iterations.

FIL 4160. Feature Screenwriting (3). Prerequisite: Major status. This course teaches aspects of feature screenwriting format, pitching ideas, creating and developing character, story, and dialogue.

FIL 4164. Feature Screenwriting: Development (3). Prerequisite: Major status. This course teaches the various techniques of scene breakdown, setting up, sequencing, character development, and dialogue development. Also teaches rewriting techniques to strengthen first drafts.

FIL 4434r. Advanced Filmmaking (1–9). This course provides instruction in the creative aspects of filmmaking through the hands-on production of a short film. Students work in a variety of creative roles, including directing, cinematography, art direction, and editing. May be repeated to a maximum of fifteen semester hours.

FIL 4474. Production: Advanced Cinematography (3). Prerequisite: Major status. This course introduces advanced lighting techniques and allows hands-on exercises emphasizing the creative use of lighting for mood and storytelling.

FIL 4539. Production: Advanced Sound (3). Prerequisite: Major status. This course provides students with a thorough understanding of digital sound recording, sound mixing, and various stages of sound post-production as it applies to 16mm filmmaking.

FIL 4567. Production: Advanced Editing (3). Prerequisite: Major status. This course offers advanced study in film editing techniques and styles.

FIL 4602. Film Business Planning (3). Prerequisite: Major status. This course exposes students to current business trends and issues in the film industry; introduces case studies that examine all business aspects surrounding a feature film; introduces current readings on the film industry.

FIL 4613r. Motion Picture Marketing and Exhibition (3). Prerequisite: Major status. This course provides an introduction to the marketing and exhibition of motion pictures, with an emphasis on current methods and practical techniques for promoting, publicizing, and distributing short films. Throughout the course, students develop original marketing materials to be used primarily for film festivals. May be repeated to a maximum of twelve semester hors.

FIL 4712r. Visualization III (3). Prerequisite: Major status. This course provides an advanced-level instruction in the visual development skills required for the preproduction and previsualization of narrative motion pictures. May be repeated to a maximum of six semester hours.

FIL 4713r. Character Art (1–6). Prerequisites: FIL 2730 and major status. This course provides theory and practice in developing digital characters and figures including concept art, modeling sheets, digital sculpture, texture, and preparation for rigging and animation.

FIL 4737r. Character Animation II (1–3). Prerequisites: FIL 2731, FIL 3736, and major status. This course provides continuing theory and practice in character and creature animation with an emphasis on animating believable multi-character dialogue and combat scenes and on implementing professional workflow standards. May be repeated to a maximum of nine semester hours.

FIL 4872. Film Aesthetics (3). Prerequisite: Major status. This course allows students to analyze film with regard to three basic questions: 1) What is film? 2) How do we perceive film? 3) How is an aesthetic developed?

FIL 4905r. Directed Individual Study (1–3). (S/U grade only.) Prerequisites: Major status and junior standing. May be repeated to a maximum of six semester hours.

FIL 4910r. Application of Research and Creative Methods (1–3). (S/U grade only.) Prerequisites: Major status and junior standing. In this course, students participate in a faculty or graduate student research and/or creative project. May be repeated to a maximum of six semester hours.

FIL 4923r. Undergraduate Film Seminar (1–6). Prerequisite: Major status. This course consists of the development of a creative film project under the direction of a faculty member or industry professional in various areas. May be repeated to a maximum of six semester hours.

FIL 4933. Professional Development (3). Prerequisite: Major status. This course prepares students to enter the professional film work arena; addresses the search for employment within the film industry and the search for funds to produce independent work.

FIL 4940r. Application of Instruction Methods (1–3). (S/U grade only.) Prerequisite: Major status. This course allows students to participate in the instructional process under the strict supervision of a faculty member. May be repeated to a maximum of six semester hours.

FIL 4945r. Professional Internship (1–12). (S/U grade only.) Prerequisite: Major status. This internship gives apprenticeship experience with a company involved in film/video production, distribution, or exhibition. May be repeated to a maximum of twelve semester hours.

FIL 4970r. Thesis Defense (0). (P/F grade only.) Prerequisite: Major status. This course involves the presentation of senior thesis film to the faculty and student body for review and approval.

FIL 4972r. Thesis Film Production Management (1–6). Prerequisite: Major status. Production management for BFA thesis films. May be repeated to a maximum of fifteen semester hours.

FIL 4973r. BFA Thesis Production (1–15). Prerequisite: Major status. This practicum course focuses on all creative aspects of BFA thesis production. May be repeated to a maximum of fifteen semester hours.

FIL 4975r. Undergraduate Honors Thesis (1–6). Prerequisites: Admission to the undergraduate Film School honors program and major status. Student must complete a minimum of six semester hours; may be repeated to a maximum of nine semester hours.

IDH 2123. Child and Youth Media Cultures in the U.S. (3). Prerequisite: Honors or major status. This course examines the role of media in the lives of U.S. children and youth by looking at young people's media use in diverse contexts throughout the U.S. and asking how child and youth identities are influenced by and co-constructed with media. This course also incorporates practical exercises in applying theory and research to study young people's media practices and to develop media products intended for child and youth audiences.

IDS 2453. Reality and Illusion in World Cinema (3). This course examines world cinema with a focus on the elusive and continually shifting boundary between reality and illusion. The course investigates creative approaches to story telling and the craft of filmmaking not typically seen in traditional Hollywood or American independent film productions.

IDS 2674. Animation and Identity (3). Prerequisite: Honors student status. This course examines the medium of animation and the contributions of influential animators with a focus on how identity and societal milieu influence artistic expression in animation. Through animation screenings, discussion, and hands-on animation exercises, students are exposed to diverse animation styles and approaches, create original short animations, and come to better understand the creative process utilized in animation.

Graduate Courses

FIL 5147r. Writing the Dramatic Series Pilot (1–6).
FIL 5148r. Writing the Dramatic Series Spec (1–6).
FIL 5155Lr. Screenwriting: Short Format (1–12).
FIL 5156Lr. Screenwriting: Feature Format (1–12).
FIL 5157L. Screenwriting 3: Advanced Workshop (2–6).
FIL 5159r. Screenwriting: Motion Picture Workshop (1–6).
FIL 5408r. Preproduction and Production Planning (3–12).
FIL 5459r. Practicum in Technical Support (1–12).
FIL 5484Lr. Directing Actors (2).
FIL 5496r. Motion Picture Acting (1–6).
FIL 5498L. Advanced Directing (2).
FIL 5519Lr. Camera and Light Mechanics (1–6).
FIL 5546. Advanced Sound (2–6).
FIL 5555Lr. Motion Picture Editing (1–6).
FIL 5568L. Advanced Editing (2–6).
FIL 5590L. Lighting Workshop (2–6).
FIL 5591r. Production Design Workshop (1–12).
FIL 5592Lr. Sound Workshop (1–6).
FIL 5593L. Post-production Sound Workshop (2).
FIL 5595Lr. Directing: Single-Camera Workshop (2).
FIL 5635r. Motion Picture Marketing and Distribution (1–6).
FIL 5636Lr. Advanced Workshop in Area of Specialization (2–12).
FIL 5642L. Producing 1 (2).
FIL 5646L. Producing 2 (2).
FIL 5648Lr. Production Management (2).
FIL 5715Lr. Pre-Visualization (1–6).
FIL 5795Lr. Visual Effects (1–6).
FIL 5807. Critical Methods of Film Analysis (3).
FIL 5875r. Film Aesthetics (1).
FIL 5906r. Directed Individual Study (3–12). (S/U grade only.)
FIL 5912r. Supervised Research or Creative Activity (3). (S/U grade only.)
FIL 5921r. Colloquium in Motion Picture Arts (1–6).
FIL 5930r. Proseminar in Motion Picture, Television, and Recording Arts (1).
FIL 5931r. Special Topics in Motion Picture Arts (1–12).
FIL 5955r. Apprenticeship (1–12). (S/U grade only.)
FIL 5962r. MFA Qualifying Project (3–15).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MOTOR BEHAVIOR:
see Nutrition, Food and Exercise Sciences

MOVEMENT SCIENCE:
see Nutrition, Food and Exercise Sciences

MULTILINGUAL/MULTICULTURAL EDUCATION:
see Middle and Secondary Education

MUSIC
Undergraduate Programs

College of Music

Website: *http://www.music.fsu.edu/*

Professors: Amsler, Bakan, Brewer, Buchler, Callender, Clary, Clendinning, Darrow, Drew, Dunnigan, Fenton, Fisher, Flowers, Frederickson, Gaber, Gainsford, Geringer, Gregory, Hoekman, Holzman, Jimenez, E.A. Jones, Jordan, Keesecker, Kelly, Kraus, Lata, Madsen, Moore, Ohlsson, Parks, Peterson, Porter, Rogers, Ryan, Sauer, D. Seaton, Standley, Stebleton, Trujillo, VanWeelden, Von Glahn, Zwilich; **Associate Professors:** Anderson, Barnhart, Bish, Brister-Rachwal, Bugai, Everly, Gunderson, Hanawalt, Holden, Kalhous, Okerlund, Quinn, Roberts, Roman, Stillwell, Sung, Thrasher, Williams, Wingate; **Assistant Professors:** Benavidez, Chandler, De Cock, Deibel, Detweiler, Dumlavwalla, Gooding, E.T. Jones, K. Jones, Large, League, Lumsden, Rabinovich, Speed, G. Springer, J. Springer, Stonikas, Thomas, Timpone, Ugay; **Visiting Professors:** Atkins, Broyles, Corzine; **Visiting Associate Professors:** Enlow, Guiterrez; **Visiting Assistant Professors: Arsenault,** Arthur, Bankey, Byrnes, Dunning, Huse, Ivey, J. Sung; **Specialized Teaching Faculty:** Hobson, Lima, Lopez-Dabdoub, Plack, G. Seaton, Songsirdej, Yeoh; **Faculty Librarians:** Cohen, Green

The College of Music has been a fully accredited member of the National Association of Schools of Music since 1930, and its degree requirements are in accordance with the latest published regulations of that association.

Undergraduate Degrees

The following are the undergraduate degrees offered by the College of Music:

Bachelor of Arts in Music (Areas of Emphasis: General Music, Commercial Music, Jazz, Sacred Music)

Bachelor of Music in Composition

Bachelor of Music in Music Theory

Bachelor of Music in Music Therapy

Bachelor of Music in Performance
- Brass
- Guitar (classical)
- Harp
- Jazz
- Music Theatre
- Organ
- Percussion
- Piano
- Strings (cello, double bass, viola, violin)
- Voice
- Woodwinds

Bachelor of Music Education
- Choral
- General
- Instrumental

In addition to the Bachelor of Music (BM), the Bachelor of Music Education (BME), and the Bachelor of Arts (BA) degrees in music, the College of Music also provides a music minor for the divisions of the University that require a minor course of study.

For complete details of undergraduate degree requirements, plus a description of the college, its facilities, opportunities, and available financial assistance, refer to the "College of Music" chapter of this *General Bulletin*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in the music BA program satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, CGS 3406, EME 2040, ISC 3313, MUE 4690, or MUS 2360. Undergraduate majors in music teacher education satisfy this requirement by earning a grade of "C–" or higher in MUE 4690. Undergraduate majors in music composition, music performance, music theatre, music theory, and music therapy satisfy this requirement by earning a grade of "C–" or higher in MUS 2360.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Music

1. MUT X111 or MUT X121
2. MUT X112 or MUT X122
3. MUT X116 or MUT X126
4. MUT X117 or MUT X127
5. MUT X241 and MUT X242 and MUT X246 and MUT X247, or MUT X221 and MUT X222 and MUT X226 and MUT X227, or MUT X271 and MUT X272 and MUT X276 and MUT X277
6. MUN XXXX: one course for four credit hours
7. MVX XX1X: one course for two to four credit hours
8. MVX XX2X: one course for two to four credit hours
9. XXX XXXX: recommended courses vary from track to track
10. Secondary piano: proficiency by examination, or MVK X111 and MVK X112 and MVK X121 and MVK X122, or MVK X111r and MVK X111r and MVK X121r and MVK X121r and MVK X211 and MVK X221 as needed to achieve piano proficiency.

    Note: Duplicate courses such as MVK X111r may be repeated up to four times.

Music Composition

1. MUT X111 or MUT X121
2. MUT X112 or MUT X122
3. MUT X116 or MUT X126
4. MUT X117 or MUT X127
5. MUT X241 and MUT X242 and MUT X246 and MUT X247, or MUT X221 and MUT X222 and MUT X226 and MUT X227, or MUT X271 and MUT X272 and MUT X276 and MUT X277
6. MUN XXXX: one course for four credit hours
7. MVX XX1X: one course for two to four credit hours
8. MVX XX2X: one course for two to four credit hours
9. XXX XXXX: recommended courses vary from track to track
10. Secondary piano: proficiency by examination, or MVK X111 and MVK X112 and MVK X121 and MVK X122, or MVK X111r and MVK X111r and MVK X121r and MVK X121r and MVK X211 and MVK X221 as needed to achieve piano proficiency.

    Note: Duplicate courses such as MVK X111r may be repeated up to four times.

Music Teacher Education

1. EDF X005
2. EDF X085

   Note: In addition to EDG X085, a minimum of six credit hours with an international or diversity focus is required. Eligible courses will be determined by the institution where the student is currently earning his or her Associate of Arts (AA) or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact the department and/or advisor for details.
3. EME X040
4. MUT X111 or MUT X121
5. MUT X112 or MUT X122
6. MUT X116 or MUT X126
7. MUT X117 or MUT X127
8. MUT X241 and MUT X242 and MUT X246 and MUT X247, or MUT X221 and MUT X222 and MUT X226 and MUT X227, or MUT X271 and MUT X272 and MUT X276 and MUT X277

9. MUN XXXX: one course for four credit hours
10. MVX XX1X: one course for two to four credit hours
11. MVX XX2X: one course for two to four credit hours
12. XXX XXXX: recommended courses vary from track to track
13. Secondary piano: proficiency by examination, or MVK X111 and MVK X112 and MVK X121 and MVK X122, or MVK X111r and MVK X114 and MVK X121r and MVK X121r and MVK X211 and MVK X221 as needed to achieve piano proficiency.

    Note: Duplicate courses such as MVK X111r may be repeated up to four times.

Music Performance

1. MUT X111 or MUT X121
2. MUT X112 or MUT X122
3. MUT X116 or MUT X126
4. MUT X117 or MUT X127
5. MUT X241 and MUT X242 and MUT X246 and MUT X247, or MUT X221 and MUT X222 and MUT X226 and MUT X227, or MUT X271 and MUT X272 and MUT X276 and MUT X277
6. MUN XXXX: one course for four credit hours
7. MVX XX1X: one course for two to four credit hours
8. MVX XX2X: one course for two to four credit hours
9. XXX XXXX: recommended courses vary from track to track
10. Secondary piano: proficiency by examination, or MVK X111 and MVK X112 and MVK X121 and MVK X122, or MVK X111r and MVK X111r and MVK X121r and MVK X121r and MVK X211 and MVK X221 as needed to achieve piano proficiency.

    Note: Duplicate courses such as MVK X111r may be repeated up to four times.

Music Theory

1. MUT X111 or MUT X121
2. MUT X112 or MUT X122
3. MUT X116 or MUT X126
4. MUT X117 or MUT X127
5. MUT X241 and MUT X242 and MUT X246 and MUT X247, or MUT X221 and MUT X222 and MUT X226 and MUT X227, or MUT X271 and MUT X272 and MUT X276 and MUT X277
6. MUN XXXX: one course for four credit hours
7. MVX XX1X: one course for two to four credit hours
8. MVX XX2X: one course for two to four credit hours
9. XXX XXXX: recommended courses are MUH X512, MUH X513, MUL X110, MUS X010, GER X120, GER X121, GER XXXX, and MUL X111
10. Secondary piano: proficiency by examination, or MVK X111 and MVK X112 and MVK X121 and MVK X122, or MVK X111r and MVK X111r and MVK X121r and MVK X121r and MVK X211 and MVK X221 as needed to achieve piano proficiency.

    Note: Duplicate courses such as MVK X111r may be repeated up to four times.

Music Therapy

1. MUT X111 or MUT X121
2. MUT X112 or MUT X122
3. MUT X116 or MUT X126
4. MUT X117 or MUT X127
5. MUT X241 and MUT X242 and MUT X246 and MUT X247, or MUT X221 and MUT X222 and MUT X226 and MUT X227, or MUT X261 and MUT X262 and MUT X266 and MUT X267, or MUT X271 and MUT X272 and MUT X276 and MUT X277
6. MVK X111 and MVK X112 and MVK X121 and MVK X122 or secondary piano (proficiency by examination), or MVK X111r and MVK X111r and MVK X111r and MVK X121r and MVK X121r and MVK X211 and MVK X221

    Note: Duplicate courses such as MVK X111r may be repeated up to four times.
7. MUN XXXX: one course for four credit hours
8. MVX XX1X: one course for two to six credit hours
9. MVX XX2X: one course for two to six credit hours
10. XXX XXXX: recommended courses are MUH X512, MUH X513, MUL X110, MUS X010, MVV X111, MVS X116, MUE X440, MUE X412, PSY X012, and MUL X111

Honors in the Major

The College of Music offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Graduate Degrees

The following are the graduate degrees offered by the College of Music:

Master of Arts in Art Administration

Master of Arts in Music (Areas of Emphasis: Music/Liberal Arts, Piano Technology)

Master of Music in Composition

Master of Music in Music Theory

Master of Music in Music Therapy

Master of Music in Musicology (historical or ethnomusicology)

Master of Music in Opera Production (coaching or directing)

Master of Music in Performance
- Accompanying
- Conducting (band, choral, or orchestral)
- Guitar
- Harp
- Jazz
- Organ
- Piano
- Piano Pedagogy
- Strings
- Voice
- Woodwinds, Brass, or Percussion

Master of Music Education

Doctor of Music in Composition

Doctor of Music in Performance
- Collaborative Piano
- Guitar
- Harp
- Organ
- Piano
- Strings
- Voice
- Woodwinds, Brass, or Percussion

Doctor of Philosophy in Music Education
- Choral Conducting
- Choral Music Education
- General Music
- Instrumental Conducting
- Instrumental Music Education
- Music Therapy
- Piano Pedagogy
- String Education
- Teacher Education

Doctor of Philosophy in Musicology (historical or ethnomusicology)

Doctor of Philosophy in Music Theory

Details of graduate programs can be found in the *Graduate Bulletin*.

Definition of Prefixes

IDS—Interdisciplinary Studies
MUC—Music: Composition
MUE—Music Education
MUG—Music: Conducting
MUH—Music: History/Musicology
MUL—Music Literature

MUM—Music: Commercial/Management/Administration
MUN—Music Ensembles
MUO—Music: Opera/Musical Theatre
MUR—Music: Church
MUS—Music
MUT—Music: Theory
MUY—Music: Therapy
MVB—Applied Music: Brasses
MVH—Historical Instruments
MVJ—Applied Music: Jazz
MVK—Applied Music: Keyboard
MVO—Applied Music: Other
MVP—Applied Music: Percussion
MVS—Applied Music: Strings
MVV—Applied Music: Voice
MVW—Applied Music: Woodwinds

Undergraduate Courses

Liberal Studies

IDS 2170. Music in the World (3). This course provides an introductory survey of various musical traditions in a global perspective, exploring music both as a phenomenon of sound and as a phenomenon of culture.

IDS 2171. Visualizing Music: Representing Music Through Images (3). This course engages ways other than standard Western music notation that music may be represented visually, including tablatures, analytical graphs and diagrams, graphic and text scores, and notation methods for world or popular music and works in the art music tradition pre- and post-dating the development of standard Western music notation.

IDS 2173. A Social History of America's Popular Music (3). This course offers an introduction to the history of American popular music and examines how cultural, social, economic, and political issues are intertwined with various musical styles that have been integral to popular culture in the United States. By studying specific artists and works representative of these various musical styles, and placing them within their proper historical and cultural context, students gain a deeper understanding of the music and its significance to American society. Through readings, listening exercises, concert attendance, and written assignments, students develop critical listening skills and learn how to discuss and write about music using appropriate terminology.

IDS 2371. Music and Culture in London (3). This course explores British musical and cultural traditions, both innate and imported, and the notion of how a national artistic identity can be expanded and transformed.

IDS 2372. Art Music in Contemporary Society (3). This course examines the reception of musical performance and contemporary music in the late nineteenth, twentieth and twenty-first centuries. Through this study students also select a metropolitan musical capital for their own research project and evaluate the influences of society on music and music on society through the reception of music in the Western canon.

IDS 2461. Music and International Human Rights (3). This course investigates the role music plays worldwide in negotiating, consolidating, and questioning power between powerful macro-reaching political entities (corporations, nation states) and micro-locales (villages, regions, sub-cultures).

IDS 2463. Writing/s about Music (3). This course is a reading- and writing-intensive seminar based on writings about music from different cultural perspectives and in a variety of genres. Students analyze assigned readings and create their own work in a variety of forms.

IDS 2660. Seeing Sound, Hearing Pictures: The Interaction of Music and Photography (3). This course selects a specific category of sound, music, and a specific visual medium, photography, to explore the nature of each and to examine how the aural and visual interact today.

IDS 2672. Music and Film (3). This course is an overview of the uses and meanings of music in the development of film during the past 130 years. It examines the many different ways that the question of why music has been significant and especially how music has come to impact the film experience since the introduction of sound. Through the critical examination of selected commercial, independent, avant garde, and international films, music's essential role in cinema is evaluated.

IDS 3305r. Music and Literature (3). This course examines the relationship of music and literature through three lenses: the perception of musicians in works of literature; the use of literature in musical works; and critical literature about music. May be repeated to a maximum of three semester hours.

IDS 3648. Beethoven in America (3). This course will provide an examination of Beethoven as an icon in American culture, and the ways that his music has been used and interpreted in American society. Emphasis will be on what Beethoven's presence tells us about American society itself.

Composition

MUC 1211. Composition (2). Prerequisites: MUT 1111, MUT 1241L, and instructor permission. This course examines the elements of form and composition. For composition majors only.

MUC 2221r. Composition (2). Prerequisite: MUC 1211. This course studies techniques of composition. For composition majors only. May be repeated to a maximum of four semester hours.

MUC 3231r. Composition (3). Prerequisites: MUC 2221 and instructor permission. For composition majors only. May be repeated to a maximum of six semester hours.

MUC 3610. Film Scoring (3). Prerequisite: Instructor permission. This course studies techniques of film scoring and review of application requirements.

MUC 3620r. Jazz Composition (3). This course examines techniques of creative jazz composition and literature. May be repeated to a maximum of six semester hours.

MUC 4103r. Composition (2). Prerequisite: MUT 2117. For non-composition majors only. May be repeated to a maximum of four semester hours.

MUC 4241r. Composition (3). Prerequisite: MUC 3231. For composition majors only. May be repeated to a maximum of six semester hours.

MUC 4950. Composition Senior Recital (0). (S/U grade only.)

Music Education

MUE 1090. Orientation to Music Education/Music Therapy (1). (S/U grade only.)

MUE 1093. Freshman Seminar (1).

MUE 2040. Introduction to Teaching Music (3). Prerequisite: MV(B, J, K, O, S, V, W) 1310 –1319 series or instructor permission. This course provides students with an introduction to music teaching and learning.

MUE 2290. Personal Growth in Music (2). This course provides a systematic study of the elements of music. For non-music majors.

MUE 2390. Teaching Music to Diverse Populations (3). This course provides students with an introduction to the learning problems and needs of special education, early intervention, at-risk, and ESL children and those from diverse cultures, with applicable teaching methodology specific to music education curricula and goals.

MUE 2410. Choral Techniques for Non-Voice Principals (2). Prerequisite: Non-vocal music education majors or instructor permission. Corequisite: University Chorale (Summer) or approved substitute. This course examines individual and group vocal techniques for the non-voice music education major.

MUE 2412. Introduction to Wind and Percussion Instruments (2). This course examines methods of tone production and pedagogy of brass, woodwind, and percussion instruments. Required of music education choral majors.

MUE 2440. Introduction to String Instruments (2). This course examines methods of tone production and pedagogy of string instruments. Required of music education choral majors.

MUE 3091. Orientation to Music Education/Therapy (1). (S/U grade only.) This course provides students with an orientation to the career options in music therapy.

MUE 3311. Reading and Teaching Music: Elementary (3). This course seeks to introduce the prospective music teacher to a variety of skills and techniques necessary for successful teaching in elementary school settings.

MUE 3334. Assessment and Teaching Music: Secondary Schools (3). Prerequisite: MUE 3311. This course is designed for undergraduate music education majors planning to teach general music classes in secondary schools and provides knowledge and experiences aimed at improving the student's understanding, skills, and confidence as a teacher and musician.

MUE 3343. The Instrumental Program Strings and Orchestra (3). This course is required of music education instrumental majors.

MUE 3344. Teaching General Music K–12 (3). Prerequisites: MUE 3311 and MUE 3334. This course examines the rationale, sequence, and learning theory in relation to music for the general student (K–12).

MUE 3441. Methods of String Instruction (3). In this course, students have the opportunity to read current writings on string pedagogy, develop performance skills on two stringed instruments, and observe professionals teaching strings in the public schools. This course is required of all undergraduate instrumental music education majors.

MUE 3443. Introduction to Teaching String Instruments (3). Prerequisite: Admission to professional sequence or instructor permission. This course provides students with teaching and performance techniques for string instruments.

MUE 3456. Techniques and Teaching: Oboe, Bassoon (2). This course examines the application of performance and teaching techniques and practices unique to oboe and bassoon.

MUE 3457. Techniques and Teaching: Flute, Clarinet, Saxophone (2). This course examines the application of performance and teaching techniques and practices unique to flute, clarinet, and saxophone.

MUE 3465. Techniques and Teaching: Brass Instruments (2). This course examines the application of performance and teaching techniques and practices unique to brasses.

MUE 3475. Techniques and Teaching: Percussion Instruments (2). This course examines the application of performance and teaching techniques and practices unique to percussion.

MUE 3491. Communication Skills for the Musician: Choral (2). This course introduces development of choral, verbal, and non-verbal communication skills; conducting skills; and knowledge of choral literature.

MUE 3492. Choral Literature and Conducting (2). Corequisite: MUE 3495.

MUE 3493. Communication Skills for the Musician: Instrumental (2). This course examines communication in the conducting of instrumental music in public schools. It emphasizes verbal and non-verbal rehearsal techniques and the application of pedagogical skills in the classroom.

MUE 3494. Band and Orchestral Literature and Conducting (2). Corequisite: MUE 3496.

MUE 3495r. Music Education Laboratory: Choral (1). This course is required of all music education majors. May be repeated to a maximum of four semester hours.

MUE 3496r. Music Education Laboratory (1). This course is required for all undergraduate instrumental (string) music education majors. Students have the opportunities to read current writings on string pedagogy, listen to and perform essential string literature, and to develop additional playing skills. This course may be repeated to a maximum of six credit hours within the same term.

MUE 3941r. FSU Capital Children's Choir Internship (1). This course consists of an internship with the Capital Children's Chorus of Tallahassee, including providing instructional activity and concert preparation under faculty supervision.

MUE 4044. Music Education in the American Society (3). This course analyzes the interaction of society, culture, and musical behavior with the activities, attitudes, and behaviors in the United States' school systems.

MUE 4092r. Arts in Medicine Services (1–3). This course orients, teaches, and coordinates students who wish to volunteer for Arts in Medicine practica at Tallahassee Memorial HealthCare. The purpose of the course is to allow each student to use his/her particular talents to benefit Tallahassee Memorial HealthCare patients, families, and staff. For each hour of academic credit, students are required to complete two hours per week of volunteer service throughout the semester. May be repeated to a maximum of three semester hours.

MUE 4324. ESOL in the Music Classroom (3). Pre- or corequisite: MUE 4044. This course explores the theory and application of teaching English to speakers of other languages in the music classroom (non-content area). Learning and teaching strategies for limited English proficient (LEP) student in the music class.

MUE 4342. The Instrumental Program in the Schools Band (2). Prerequisites: MUE 3343 and MUE 3494.

MUE 4391. Music in Special Education (3). This course examines techniques of teaching music to children in special education programs. Open to music and non-music majors.

MUE 4392. Classroom Management, Safety, Law, and Ethics (3). This course examines the following issues: specific techniques in classroom management, discipline, crises prevention and intervention; techniques for providing a safe and positive classroom environment for all students; and knowledge concerning professional ethics, and legal expectations.

MUE 4397. Survey of Vocal Diction for Choral Music Educators (2).

MUE 4411. Choral Techniques (4). Prerequisite: MUE 3491–3492 or instructor permission. This course provides students with an understanding of chorus and choral problems: organization, rehearsal, repertory, diction, intonation, tone quality, balance, blend, and style. Concurrent registration in MUE 3495r is required.

MUE 4433. Vocal Pedagogy in Music Education (2). Prerequisite: Junior standing in music education. This course studies voice teaching methods for music education majors.

MUE 4480. Marching Band Techniques (1). This course studies current marching band techniques, methods, and styles and their application to secondary public school music education programs.

MUE 4481. Jazz Ensemble Techniques (1). This course studies the implementation and administration of the jazz ensemble in the public school music program.

MUE 4690. Technology for the Music Classroom (3). Prerequisite: Placement in 2000-level courses or instructor permission. This course combines reading, discussion, and hands-on projects to achieve an understanding of how computers work and how they can be incorporated effectively in the music classroom from K–12.

MUE 4940. Internship in Music (12). (S/U grade only.) Prerequisites: MUE 3334, MUE 4392, completion of all coursework in music education, school system security clearance (background check, fingerprinting) and successful completion of all state teacher certification exams. This course is a one semester resident internship as a student teacher in approved public schools.

Conducting

MUG 3104. Conducting (1). Prerequisite: MUT 1112. This course studies the elements of conducting and rehearsal techniques.

MUG 4102. Advanced Conducting (2). Prerequisite: MUG 3104. This course studies continued theory and practice of conducting.

Music History

MUH 2012. Music in Western Culture, 19th and 20th Centuries (3). This course surveys music literature and composers of the 19th and 20th centuries. The course explores music and its relation to the other arts, the historical events of the times, and the milieu in which the music literature was created. For non-music majors. Meets liberal studies requirements.

MUH 2019. Modern Popular Music (3). This course surveys the development of popular music in America from the early 20th century to the present with a focus on the cultural, social, economic, technological, and political conditions surrounding that music. The course widens student's comprehension of the times, places, cultural contexts, intellectual debates, and economic conditions that foster (or hinder) artistic innovation.

MUH 2051. Music in World Cultures (3). This course provides an introductory survey of various musical traditions in a global perspective, exploring music both as a phenomenon of sound and as a phenomenon of culture. Students analyze tradition as a constantly evolving and transformative entity that nurtures and sustains core cultural values. The social context of music, including social structure, geography, globalization, mass mediation, conceptions of religion, instruments, aesthetic priorities, and cultural beliefs that inform music within given cultural contexts is emphasized.

MUH 2512. Music in World Cultures (2). This course provides an introductory survey of various musical traditions in a global perspective, exploring music both as a phenomenon of sound and as a phenomenon of culture. The course is for music majors only.

MUH 3053. American Roots Music (3). This course studies the diverse musics of North American minority groups, with an emphasis on Native American, African-American, Latin American, Asian, Jewish, and certain Euro-American traditions.

MUH 3211. Survey of Music History I: Antiquity to 1750 (3). Prerequisites: MUL 2110 and MUH 2512. This course surveys music history from antiquity to 1750. Required of music majors.

MUH 3212. Survey of Music History II: 1750 to Present (3). Prerequisites: MUH 3211 and MUL 2110. This course surveys music history from 1750 to the present. Required of music majors.

MUH 4321. History of Music: Medieval (3). Prerequisites: MUH 3211 and MUH 3212, or instructor permission.

MUH 4331. History of Music: Renaissance (3). Prerequisites: MUH 3211 and MUH 3212, or instructor permission.

MUH 4341. History of Music: Baroque (3). Prerequisites: MUH 3211 and MUH 3212, or instructor permission.

MUH 4351. History of Music: Classical (3). Prerequisites: MUH 3211 and MUH 3212, or instructor permission.

MUH 4361. History of Music: 19th Century (3). Prerequisites: MUH 3211 and MUH 3212, or instructor permission.

MUH 4371. History of Music: 20th Century (3). Prerequisites: MUH 3211 and MUH 3212, or instructor permission.

MUH 4531. African Soundscapes (3). This course introduces graduate students and upper-level undergraduates to the diversity of musical cultures from the African continent. Students explore various case studies from the continent and develop tools to interpret their musical value and contextual meaning. A background interest in music, anthropology, performance studies, or African studies is recommended.

MUH 4541. Music of Latin America I (3). This course studies the diverse musical cultures of Latin America, including Native American, European, African, and Asian derived, and syncretic or mestizo forms.

MUH 4543. Music in the Caribbean (3). This course surveys the musics of the Caribbean Basin from Cuba to Trinidad-Tobago, the coastal regions of northern Venezuela and Colombia, and the eastern coasts of Central America and Mexico.

MUH 4571. Music of Indonesia (3). This course offers a survey of selected music cultures of Indonesia. The primary focus is on gamelan music, especially that of Java and Bali. Popular and experimental Indonesian musical forms, as well as Indonesian-inspired music by Western composers, are also investigated.

MUH 4630. Music in the United States (3). Prerequisites: MUH 3211, MUH 3212, and MUT 2117. This course surveys musical activities in the United States.

MUH 4680. Introduction to Historical Musicology (3). This course introduces students to the history, scope, and sources of musicological research.

MUH 4801. History of Jazz I (1890–1950) (2). This course studies the evolution of jazz, 1890–1950, including the study of ragtime, New Orleans, Chicago, pre-Swing, Swing, Be-Bop, and West Coast styles.

MUH 4802. History of Jazz II (1950 to the Present) (2). This course studies the evolution of jazz, 1950 to the present, including the study of Cool, Hard Bop, Free, Post Bop, and Pop-Jazz styles.

Music Literature

MUL 2010. Music Literature, Listening and Understanding (3). This course is an introduction to music as a manifestation of human culture, as an expressive art form, and as an intellectual discipline. The course also develops a knowledge of a variety of significant musical repertoire, skills for perceptive listening, and the ability to respond to musical expression with critical insight.

MUL 2110. Survey of Music Literature (2). Prerequisites: MUT 1111 and MUT 1112 or equivalent. This course is a survey of core repertoire of Western music. In addition to the works themselves, the course introduces the broad periods of Western music history, and develops a systematic approach to the analysis of musical style.

MUL 3481. Survey of Keyboard Literature: Baroque and Classic (2). This course allows students to survey composers, styles and works written for keyboard instruments in the period up to 1828. Required of piano and harpsichord performance majors.

MUL 3482. Survey of Keyboard Literature: Romantic, 20th, and 21st Century (2). This course allows students to survey composers, styles and works written for the piano in the period from 1828 to the present. Required of piano performance majors.

MUL 3604. Vocal Solo Literature: German (2). Prerequisite: Junior standing. This course is required of voice performance majors.

MUL 4371. Music Since World War II (3). This course surveys recent musical techniques and aesthetics as revealed in selected works.

MUL 4420. Chamber Music Literature for Strings (3). This course studies chamber music literature for strings alone, strings with keyboard, and strings with other instruments.

MUL 4430. Guitar Literature I (2). This course studies guitar literature from the Renaissance to the Pre-Classic period.

MUL 4431. Guitar Literature II (2). This course studies guitar literature from the Classic period to the present.

MUL 4441–4442. Solo Music Literature Seminar: Winds (three hours each). 4441 Woodwinds, 4442 Brasses.

MUL 4460. Percussion Literature and Resource Seminar (3).

MUL 4490. Survey of Organ Literature (1). This course surveys the major schools of organ composition, with particular emphasis on the contribution of organ music to the liturgy of the Western church.

MUL 4504r. Orchestral Wind Repertory (2). This course enables woodwind, brass, and percussion students to perform as well as to study works from the standard orchestral literature. May be repeated to a maximum of twenty-four semester hours.

MUL 4563. Chamber Music Literature for Piano and Winds (2). This course is a study of chamber music literature for wind instruments with keyboards.

MUL 4600. Survey of Sacred Vocal Literature (1). This course surveys the sacred vocal literature available for the liturgical year.

MUL 4605–4608. Vocal Solo Literature (two hours each). Prerequisite: Junior standing. This course is required of voice performance majors. 4605 French; 4608 Contemporary Song.

MUL 4642. Survey of Sacred Choral Literature (1). This course surveys sacred choral literature suitable for medium-size choirs in churches and synagogues, embracing Catholic, Protestant, or Jewish faiths.

MUL 4931r. Special Topics in Music Literature (1–3). This course studies music literature. May be repeated to a maximum of twelve semester hours.

Keyboard Technology

MUM 4210. Applied Piano Tuning I (3). Prerequisite: Instructor permission. This course examines string vibration as it relates to applied piano tuning.

MUM 4211. Applied Piano Tuning II (3). Prerequisite: MUM 4210. This course examines tuning systems and temperaments appropriate for historical instruments and for the modern piano.

MUM 4212. Applied Piano Tuning III (3). Prerequisite: MUM 4211. This course examines continued development of tuning skills.

MUM 4213. Applied Piano Tuning IV (3). Prerequisite: MUM 4212. This course develops tuning skills up to the concert level, and prepares students for the Piano Technicians Guild tuning exam.

MUM 4220. Theory of Piano Technology I (2). Prerequisite: Sophomore standing or instructor permission. This course examines the history and fundamental principles of the modern mechanisms of the piano.

MUM 4221. Theory of Piano Technology II (2). Prerequisites: MUM 4220 or instructor permission. This course provides introductory instruction in preparing a piano for concert performance, including tuning, voicing, and regulation.

MUM 4251. Piano Technology I. (3). Prerequisite: Instructor permission. This course is an introduction to the history of the piano, fundamental principles of the mechanisms of the modern piano, and construction techniques.

MUM 4252. Piano Technology II (3). Prerequisite: MUM 4251. This course consists of projects that include highlighting beginning restoration techniques and introduction to action regulation.

MUM 4253. Piano Technology III (3). Prerequisite: MUM 4252. This course examines advance repair and restoration techniques.

MUM 4254. Piano Technology IV (3). Prerequisite: MUM 4253. This course studies topics including major repairs and advanced and cutting edge action geometry.

MUM 4260. Organ Design and Maintenance (2). Prerequisite: Instructor permission. This course is open to all upper-division organ majors and principals.

Ensembles

Note: All ensemble courses are repeatable.

MUN 2110r. Marching Chiefs (0–1). Prerequisite: Audition. This course provides band experience in marching and concert for all University students. May be repeated to a maximum of four semester hours.

MUN 2120r. Concert Band (0–1). This course provides concert experience in a variety of literature for all University students. May be repeated to a maximum of four semester hours.

MUN 2130r. Symphonic Band (0–1). Prerequisite: Audition. This course provides concert experience in a wide variety of literature. May be repeated to a maximum of four semester hours.

MUN 2140r. Wind Orchestra (0–1). Prerequisite: Audition. This course provides professional-level performance in a wide variety of literature. May be repeated to a maximum of four semester hours.

MUN 2210r. University Symphony (0–1). Prerequisite: Audition. This course consists of the study and performance of works representative of a broad spectrum of orchestral literature. Participation by string majors required. May be repeated to a maximum of four semester hours.

MUN 2310r. University Singers (0–1). Prerequisite: Audition. This course consists of the study and performance of works representative of a wide spectrum of choral literature. Open to all University students. May be repeated to a maximum of four semester hours.

MUN 2311r. Choral Union (0–1). This course consists of the reading, study, and performance of choral repertoire for mixed voices. Open to all University students. May be repeated to a maximum of four semester hours.

MUN 2320r. Women's Glee Club (0–1). This course consists of the study and performance of representative choral works for women's voices. Open to all women enrolled in the University. May be repeated to a maximum of four semester hours.

MUN 2330r. Men's Glee Club (Collegians) (0–1). This course consists of the study and performance of representative choral works for men's voices. Open to all men enrolled in the University. May be repeated to a maximum of four semester hours.

MUN 2350r. Opera Chorus (0–1). Prerequisite: Audition. This course consists of the study and performance of works drawn from grand opera, operettas, and musicals. Productions are presented in costume and makeup. May be repeated to a maximum of four semester hours.

MUN 2390r. University Chorale (0–1). This course consists of the study and performance of works representative of a wide spectrum of choral literature for mixed voices. Open to all University students except voice performance majors. May be repeated to a maximum of four semester hours.

MUN 2420r. Woodwind Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for woodwinds. May be repeated to a maximum of four semester hours.

MUN 2430r. Brass Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for brasses. May be repeated to a maximum of four semester hours.

MUN 2440r. Percussion Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for percussion. May be repeated to a maximum of four semester hours.

MUN 2451r. Duo Piano (1). Prerequisite: Instructor permission. This course consists of the study and performance of duo piano and piano duet literature. May be repeated to a maximum of four semester hours.

MUN 2460r. Chamber Music (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of vocal and/or instrumental ensemble literature. May be repeated to a maximum of four semester hours.

MUN 2471r. Collegium Musicum (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of music of the Middle Ages and Renaissance periods, with emphasis on historical validity, technical proficiency, and expressive musicianship. May be repeated to a maximum of four semester hours.

MUN 2472r. Baroque Ensemble (0–1). Prerequisite: Instructor permission. May be repeated to a maximum of four semester hours.

MUN 2480r. Guitar Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for guitar. May be repeated to a maximum of four semester hours.

MUN 2510r. Piano Vocal/Instrumental Accompanying (0–1). May be repeated to a maximum of four semester hours.

MUN 2710r. Jazz Ensemble (0–1). Prerequisite: Audition. This course consists of the study and performance of jazz band literature. May be repeated to a maximum of four semester hours.

MUN 2720r. Jazz-Pop Ensemble (0–1). Prerequisite: Audition. This course consists of the study and performance of jazz and popular vocal music. Ensemble may include choreography, performance with larger ensembles, and off-campus concerts. May be repeated to a maximum of four semester hours.

MUN 2800r. World Music Ensemble (0–1). Prerequisite: Instructor permission. May be repeated to a maximum of four semester hours.

MUN 4113r. Marching Chiefs (0–1). Prerequisite: Audition. This course offers marching band experience open to all University students with prior marching band experience. May be repeated to a maximum of four semester hours.

MUN 4123r. Concert Band (0–1). This course offers concert experience in a variety of literature for all University students. May be repeated to a maximum of four semester hours.

MUN 4133r. Symphonic Band (0–1). Prerequisite: Audition. This course offers concert experience in a wide variety of literature. May be repeated to a maximum of four semester hours.

MUN 4143r. Wind Orchestra (0–1). Prerequisite: Audition. This course offers professional-level performance in a wide variety of literature. May be repeated to a maximum of four semester hours.

MUN 4144r. Chamber Winds (0–1). This course offers professional-level performance in a wide variety of wind-oriented chamber music. Open to graduate students and selected upper-level undergraduate students. May be repeated to a maximum of four semester hours.

MUN 4213r. University Symphony (0–1). Prerequisite: Audition. This course consists of the study and performance of works representative of a broad spectrum of orchestral literature. Participation by string majors required. May be repeated to a maximum of four semester hours.

MUN 4313r. University Singers (0–1). Prerequisite: Audition. This course consists of the study and performance of works representative of a wide spectrum of choral literature. Open to all University students. May be repeated to a maximum of four semester hours.

MUN 4314r. Choral Union (0–1). This course consists of the reading, study, and performance of choral repertoire for mixed voices. Open to all University students. May be repeated to a maximum of four semester hours.

MUN 4323r. Women's Glee Club (0–1). This course consists of the study and performance of representative choral works for women's voices. Open to all women enrolled in the University. May be repeated to a maximum of four semester hours.

MUN 4333r. Men Glee Club (Collegians) (0–1). This course consists of the study and performance of representative choral works for men's voices. Open to all men enrolled in the University. May be repeated to a maximum of four semester hours.

MUN 4343r. Chamber Chorus (0–1). Prerequisite: Audition. This course consists of the study and performance of accompanied and a cappella works suitable for a twenty-four to thirty voice mixed chorus. May be repeated to a maximum of four semester hours.

MUN 4353r. Opera Chorus (0–1). Prerequisite: Audition. This course consists of the study and performance of works drawn from grand opera, operettas, and musicals. Productions are presented in costume and makeup. May be repeated to a maximum of four semester hours.

MUN 4393r. University Chorale (0–1). This course consists of the study and performance of works representative of a wide spectrum of choral literature for mixed voices. Open to all University students except voice performance majors. May be repeated to a maximum of four semester hours.

MUN 4423r. Woodwind Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for woodwinds. May be repeated to a maximum of four semester hours.

MUN 4433r. Brass Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for brasses. May be repeated to a maximum of four semester hours.

MUN 4443r. Percussion Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for percussion. May be repeated to a maximum of four semester hours.

MUN 4454r. Duo Piano (1). Prerequisite: Instructor permission. This course consists of the study and performance of duo piano and piano duet literature. May be repeated to a maximum of four semester hours.

MUN 4463r. Chamber Music (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of vocal and/or instrumental ensemble literature. May be repeated to a maximum of four semester hours.

MUN 4474r. Collegium Musicum (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of music of the Middle Ages and Renaissance periods, with emphasis on historical validity, technical proficiency, and expressive musicianship. May be repeated to a maximum of four semester hours.

MUN 4475r. Baroque Ensemble (0–1). Prerequisite: Instructor permission. May be repeated to a maximum of four semester hours.

MUN 4483r. Guitar Ensemble (0–1). Prerequisite: Instructor permission. This course consists of the study and performance of ensemble literature for guitar. May be repeated to a maximum of four semester hours.

MUN 4513r. Piano Vocal/Instrumental Accompanying (0–1). May be repeated to a maximum of four semester hours.

MUN 4713r. Jazz Ensemble (0–1). Prerequisite: Audition. This course consists of the study and performance of jazz band literature. May be repeated to a maximum of four semester hours.

MUN 4723r. Jazz-Pop Ensemble (0–1). Prerequisite: Audition. This course consists of the study and performance of jazz and popular vocal music. Ensemble may include choreography, performance with larger ensembles, and off-campus concerts. May be repeated to a maximum of four semester hours.

MUN 4803r. World Music Ensemble (0–1). Prerequisite: Instructor permission. May be repeated to a maximum of four semester hours.

Opera/Music Theatre

MUO 3503r. Opera Workshop (2). Prerequisite: Instructor permission. This course studies all phases of operatic production, with emphasis on and participation in staged operatic excerpts. May be repeated to a maximum of four semester hours.

MUO 4006r. Music Theatre Workshop (2). Prerequisites: MVV 1312, MVV 2322, TPP 2110, and TPP 2111. This course is a workshop-style course for upper-class Music Theatre majors, where all the various components of their preceding class work can be integrated. The focus is on Advanced Acting for Music Theatre and Audition Techniques.

MUO 4451r. Performance of Stage Role (1–2). Prerequisite: Audition. May be repeated to a maximum of eight semester hours.

MUO 4502r. Opera Workshop (2). This course studies all phases of operatic production, with emphasis on and participation in staged operatic excerpts. May be repeated to a maximum of four semester hours.

Church Music

MUR 4201. Hymnology (2). This course practically and historically studies the Church's song.

MUR 4411. Organ History and Literature to the 18th Century (2). This course studies the organ and its music from the Middle Ages to the end of the 17th century.

MUR 4412. Organ History and Literature: 18th–20th Centuries (2). This course studies the organ and its music from the time of J.S. Bach to the present day.

Music

MUS 1010r. Student Recital (0). (S/U grade only.) This course is required of all undergraduate music majors.

MUS 1920r. Cawthon Hall Music Colloquium (0–1). (S/U grade only.) This course is part of the Cawthon Hall Music Living-Learning Center Colloquium series, and is required of all Cawthon Hall-Music participants. May be repeated to a maximum of four semester hours.

MUS 2360. Introduction to Technology in Music (1). Prerequisites: MUT 1112 or equivalent and sophomore standing. This course surveys computer technology in music, including hardware, software, computer-based instruction, multimedia, and Internet.

MUS 3320. Survey of the Music Industry (3). This course provides an understanding of the world of commercial music and techniques in personal marketability.

MUS 3340. Music Instrument Digital Interface (3). This course allows students to develop techniques in electronic music composition and all aspects of MIDI.

MUS 3341. Audio Production I (2). Prerequisites: MUS 3320, MUS 3340, and acceptance into the Commercial Music Program. This course is an introduction to the theory and practice of digital audio production with emphasis on personal creativity.

MUS 3347. Audio Production II (2). Prerequisite: MUS 3341. This course presents advanced concepts and practices of digital audio recording, mixing, post production of music, as well as skills and practices of composition, arranging and audio production.

MUS 3530. Beginning C Computer Programming Techniques for Musicians (3). This course introduces students to microcomputer-based interactive graphics programming in the C language, including the designing and implementation of music computer programs.

MUS 3531r. Multimedia for Musicians (3). Prerequisite: MUS 3530 or instructor permission. This course provides students with a basic knowledge of multimedia hardware and software systems, particularly as they relate to music. Students develop multimedia projects. May be repeated to a maximum of six semester hours.

MUS 3540. Electronics for Musicians (3). This course introduces students to basic concepts and practical experiences in digital and analog electronics for musicians.

MUS 3541. Digital Music Synthesis I (3). Prerequisite: Instructor permission. This course provides students with basic theory and history of sound, knowledge of analog and digital sound recording and manipulation techniques, and an introduction to the art of electronic music.

MUS 3542. Digital Music Synthesis II (3). Prerequisite: MUS 3541. This course provides students with basic knowledge of both digital and analog sound distortion and synthesis and resynthesis techniques and allows them to explore the technology and art of digital music production.

MUS 3934r. Special Topics in Music (1–3). Prerequisite: Instructor permission. May be repeated to a maximum of nine semester hours.

MUS 3942r. Music Peer Advisement Practicum (0). (S/U grade only.) This course introduces leadership skills necessary for advising and counseling in the College of Music. May be repeated to a maximum of four times.

MUS 4222. French Language and Diction for Singers (3). Prerequisite: FRE 1120. This course is the study of French diction and continuation of grammar studies from FRE 1120. The focus is on proper pronunciation of the French language and on grammar and vocabulary necessary for translating texts of French mélodies and operas.

MUS 4232. German Language and Diction for Singers (3). Prerequisite: GER 1120. This course is the study of German diction and continuation of grammar studies from GER 1120. The focus is on proper pronunciation of the German language and on grammar and vocabulary necessary for translating texts of German Lieder and operas.

MUS 4242. Italian Language and Diction for Singers (3). Prerequisite: ITA 1120. This course is the study of Italian diction and continuation of grammar studies from ITA 1120. The focus is on proper pronunciation of the Italian language and on grammar and vocabulary necessary for translating texts of Italian songs and operas.

MUS 4611. Psychology of Music Survey (3). Prerequisite: A basic course in psychology. This course is a basic study of acoustics, the ear and hearing, musical systems, and the psycho-socio-physiological processes involved in musical behavior.

MUS 4612. Psychology of Music Learning (3). Prerequisite: MUS 4611. This course considers applied research methods in psychology of music through examination of selected research studies and behavioral projects.

MUS 4651. Nonverbal Communication in Human Interaction (2). This course contributes to the students' knowledge and skill in decoding and encoding nonverbal communication and develops survival skills in American Sign Language.

MUS 4743. Writing for Musicians (2). This course offers experience in types of writing that are particularly useful to musicians: analyses, program notes, performance reviews, and research paper.

MUS 4801r. Dynamic Integration (0–1). This course heightens students' awareness of their minds and bodies in relation to performing on a musical instrument, addressing such topics as muscle balancing, concentration, and performance anxiety.

MUS 4904r. Honors Study (1–6). Prerequisite: Instructor permission. May be repeated to a maximum of nine semester hours.

MUS 4905r. Directed Individual Study (1–3). Prerequisite: Instructor permission. May be repeated to a maximum of nine semester hours.

MUS 4936r. Senior Tutorial in Music (1–3). (S/U grade only.) Prerequisite: Upper division music major status. Selected topics in music. May be repeated to a maximum of six semester hours.

MUS 4970r. Senior Project/Thesis/Recital (2). (S/U grade only.) Prerequisites: Senior standing, instructor permission, and, for students performing a recital, completion by jury of MV_ 3000 level applied music. May be repeated to a maximum of four semester hours.

Music Theory

MUT 1001. Fundamentals of Music Theory (3). This course introduces the rudimentary fundamentals of music theory, including the basic properties of notation, scales, intervals, triads, and rhythmic notation.

MUT 1005. The Art of Songwriting (3). This course is a practical, analytical, and performance-oriented application of the fundamental materials of music theory to song composition. The course culminates in the composition and performance of an original song, in correct musical notation. Not open to students who have successfully completed one or more semesters of music theory.

MUT 1011. Music Theory for the Non-Music Major (3). This course provides a practical, analytical, and performance-oriented application of the fundamental materials of music theory. Meets liberal studies requirement. Not open to students who have successfully completed one or more semesters of music theory.

MUT 1111. Music Theory I (3). This course introduces the materials and structures of music.

MUT 1112. Music Theory II (3). Prerequisite: MUT 1111. This course introduces the materials and structures of music.

MUT 1241L. Sight Singing and Ear Training I (1). This course examines the development of skills in sight singing and ear training.

MUT 1242L. Sight Singing and Ear Training II (1). Prerequisites: MUT 1111 and MUT 1241L. This course examines the development of skills in sight singing and ear training.

MUT 2116. Music Theory III (3). Prerequisite: MUT 1112. This course helps students to develop a working knowledge of the materials and structures of tonal music through reading, listening, partwriting, model composition, and music analysis. The course also allows students to demonstrate mastery of these materials orally and in writing.

MUT 2117. Music Theory IV (3). Prerequisite: MUT 2116. This course offers students the opportunity to develop a working knowledge of the materials and structures of tonal and post-tonal music through reading, listening, model composition, and music analysis, and to be able to demonstrate mastery of these materials orally and in writing.

MUT 2246L. Sight Singing and Ear Training III (1). Prerequisites: MUT 1112, MUT 1241L, and MUT 1242L. This course develops skills in sight singing and ear training.

MUT 2247L. Sight Singing and Ear Training IV (1). Prerequisites: MUT 2116 and MUT 2246L. This course examines the development of skills in sight singing and ear training.

MUT 2641r. Jazz Improvisation I (1). Prerequisite: MUT 1112. This course provides students with skills in beginning jazz improvisation. May be repeated to a maximum of three semester hours.

MUT 2642r. Jazz Improvisation II (1). Prerequisite: MUT 2641. This course provides students with knowledge and technical skills in jazz improvisation. May be repeated to a maximum of three semester hours.

MUT 3280. Post-Tonal Aural Skills (2). This course focuses upon aural skills for training for the performance and understanding of post-tonal music.

MUT 3353. Jazz Theory/Arranging I (3). Prerequisites: MUT 2117 and MUT 2247. This course is designed to promote skills in arranging for the jazz ensemble.

MUT 3354. Jazz Theory/Arranging II (3). Prerequisite: MUT 3353 or instructor permission. This course provides advanced skills in arranging for the jazz ensemble.

MUT 3421–3422. 18th-Century Counterpoint (3). Prerequisites: MUT 2117 and MUT 2247. This course studies contrapuntal techniques of the 18th century.

MUT 3541. Form and Style: Classic (3). Prerequisites: MUT 2117 and MUT 2247. This course studies the larger forms and procedures as expressed in the musical language of the Classic period.

MUT 3551. 19th-Century Styles (3). Prerequisites: MUT 2117 and MUT 2247. This course studies 19th-century music in a stylistic manner.

MUT 3571. 20th-Century Styles (3). Prerequisites: MUT 2117 and MUT 2247. This course studies 20th-century music in a stylistic manner.

MUT 3574. Popular Music Analysis (3). Prerequisite: MUT 2117. This course is a theoretical study of popular music, including consideration of form, melody and harmony, meter and rhythm, timbre and production aspects, and recorded vs. live performance elements.

MUT 3577. The American Musical (3). Prerequisite: MUT 2117. This seminar surveys the American "book" musical, focusing on selected Broadway musicals of the twentieth century. Students are familiarized with a variety of musicals, analyzing specific songs and their function within the show, while also placing each show in a broader social context.

MUT 4311. Orchestration (2). Prerequisites: MUT 3421 and MUT 3422. This course studies the characteristic usage of orchestral instruments and the principles of scoring.

MUT 4321. Composing and Arranging for Wind Band (3). Prerequisite: Junior standing.

MUT 4411. 16th-Century Counterpoint (3). Prerequisites: MUT 2117 and MUT 2247. This course studies contrapuntal techniques of the 16th century.

MUT 4572. Music Since World War II (3). This course covers recent musical techniques and aesthetics as revealed in selected works.

MUT 4663. Jazz Styles and Analysis (2). This course examines the many aspects of jazz performance through the study of sound, rhythm, form, improvisation, and arrangement.

Music Therapy

MUY 2104. Singing in Music Therapy Settings (1). Prerequisite: MUE 3091. In this course, students are taught vocal skills, vocal health, music planning, and self-evaluation skills for singing.

MUY 3601. Music Recreation Techniques (3). Prerequisite: Class guitar (MVS 1116) or instructor permission.

MUY 4300. Medical Music Therapy (3). This course provides students with an understanding of the role and scope of music therapy in medical treatment; to learn to design music activities in medical situations to reduce pain, anxiety, and distress; to participate in field experiences observing medical music therapy practices in a hospital setting; and to learn medical documentation for clinical music therapy.

MUY 4301. Anatomy for Music Therapy Practice (2). This course is an introduction to basic terminology related to human anatomy with an added emphasis on transfers to multiple aspects of the practice of music therapy.

MUY 4401. Music Therapy: Methods and Practicum I (3). Prerequisites: Senior standing in music therapy, completion of MUS 4612; or instructor permission.

MUY 4402. Music Therapy: Methods and Practicum II (3). Prerequisite: MUY 4401. This course focuses on the applications of music therapy in all fields of health, corrections, and special education.

MUY 4611. Music Therapy Drumming (1). This course emphasizes group drumming and improvisation techniques, applications for therapy and group drumming leadership skills for use in wellness, counseling, and other music therapy settings.

MUY 4940r. Clinical Internship in Music Therapy (1–12). (S/U grade only.) Prerequisite: Completion of all coursework in music therapy. This course offers a six-month resident internship in an affiliated, approved clinical center. May be repeated to a maximum of twelve (12) credits.

Applied Music

MVK 1001r. Class Piano for Non-Music Majors (1). This course focuses on elementary keyboard techniques and musicianship. This course is for non-music majors.

MV(B, J, K, O, P, S, V, W) 1010r–1019r. Applied Music (two hours each). Private instruction. For students preparing for freshman level of applied music. With the exception of MVO 1010, 2020, 3030, and 4040, each course may be repeated to a maximum of four semester hours. Credit earned in the MV(B, J, K, O, P, S, V, W) 1011r–1019r series will not apply to the requirement of the major or principal instrument. (See specific requirements.) Credit may be modified to one hour for all instruments.

MVO 1010r. Modified Credit, All Instruments (1–2)

MVO 1010r–4040r. Undergraduate Coaching (one to two hours each). All instruments. Principal only. May be repeated to a maximum of four semester hours.

MVO 1010r. App Mus Undergraduate Coaching

MVO 2020r. App Mus Undergraduate Coaching

MVO 3030r App Mus Undergraduate Coaching

MVO 4040r. App Mus Undergraduate Coaching

MVK 1111r. Class Piano (1). Prerequisites: Audition and instructor permission. This course focuses on elementary keyboard techniques and musicianship. For music majors other than keyboard principals and performance majors. May be repeated to a maximum of two semester hours.

MVV 1111. Class Voice (1). Prerequisite: Instructor permission. This course studies the fundamentals of voice production. Elementary level.

MVS 1116. Beginning Class Guitar (1). This course is for beginning guitar students. Emphasis on music reading and elementary techniques.

MV(B, H, K, O, P, S, V, W) 1210r–1219r. Applied Music Secondary (two hours each). Private instruction. For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four semester hours. (See curricular regulations.) Credit may be modified by electing MVO 1210r (1), all instruments. All MVH courses may be taken for one to two (1–2) credit hours.

MVB 1211r. App Mus Sec, Trumpet
MVB 1212r. App Mus Sec, French Horn
MVB 1213r. App Mus Sec, Trombone
MVB 1214r. App Mus Sec, Baritone Horn
MVB 1215r. App Mus Sec, Tuba
MVH 1217r. App Mus Sec, Bowed Strings
MVK 1211r. App Mus Sec, Piano
MVK 1213r. App Mus Sec, Organ
MVO 1210r. Modified Credit, All Instruments (1)
MVP 1211r. App Mus Sec, Percussion
MVS 1211r. App Mus Sec, Violin
MVS 1212r. App Mus Sec, Viola
MVS 1213r. App Mus Sec, Violoncello
MVS 1214r. App Mus Sec, Double Bass
MVS 1215r. App Mus Sec, Harp
MVS 1216r. App Mus Sec, Guitar
MVV 1211r. App Mus Sec, Voice
MVV 1212r. App Mus Sec, Voice—Music Theatre
MVW 1211r. App Mus Sec, Flute
MVW 1212r. App Mus Sec, Oboe
MVW 1213r. App Mus Sec, Clarinet
MVW 1214r. App Mus Sec, Bassoon
MVW 1215r. App Mus Sec, Saxophone

MV(B, J, K, O, P, S, V, W) 1310r–1319r. Applied Music Principal (two hours each). Private instruction. Principal instrument. For students whose major is not performance. Each course may be repeated to a maximum of six semester hours. (See curricular regulations.) Credit may be modified by electing MVO 1310r (1), all instruments.

MVB 1311r. App Mus Prin, Trumpet
MVB 1312r. App Mus Prin, French Horn
MVB 1313r. App Mus Prin, Trombone
MVB 1314r. App Mus Prin, Baritone Horn
MVB 1315r. App Mus Prin, Tuba
MVJ 1310r. App Mus Prin, Piano, Jazz
MVJ 1311r. App Mus Prin, Voice, Jazz
MVJ 1313r. App Mus Prin, Guitar, Jazz
MVJ 1314r. App Mus Prin, Bass, Jazz
MVJ 1316r. App Mus Prin, Saxophone, Jazz
MVJ 1317r. App Mus Prin, Trumpet, Jazz
MVJ 1318r. App Mus Prin, Trombone, Jazz
MVJ 1319r. App Mus Prin, Percussion, Jazz
MVK 1311r. App Mus Prin, Piano
MVK 1313r. App Mus Prin, Organ
MVO 1310r. Modified Credit, All Instruments (1)
MVP 1311r. App Mus Prin, Percussion
MVS 1311r. App Mus Prin, Violin
MVS 1312r. App Mus Prin, Viola
MVS 1313r. App Mus Prin, Violoncello
MVS 1314r. App Mus Prin, Double Bass
MVS 1315r. App Mus Prin, Harp
MVS 1316r. App Mus Prin, Guitar
MVV 1311r. App Mus Prin, Voice
MVV 1312r. App Mus Prin, Voice—Music Theatre
MVW 1311r. App Mus Prin, Flute
MVW 1312r. App Mus Prin, Oboe
MVW 1313r. App Mus Prin, Clarinet
MVW 1314r. App Mus Prin, Bassoon
MVW 1315r. App Mus Prin, Saxophone

MV(B, J, K, O, P, S, V, W) 1410r–1419r. Applied Music Major (four hours each: piano, harpsichord, organ, strings, harp, guitar; three hours each: piano pedagogy, jazz, voice, woodwinds, brasses, percussion). Private instruction. Major instrument. This course provides individual applied instruction for music performance majors. Each course may be repeated to a maximum of twelve semester hours by piano, harpsichord, organ, string, harp, and guitar majors; nine semester hours by piano pedagogy, jazz, voice, woodwind, brass, and percussion majors. Credit may be modified by electing MVO 1410r (2), all instruments.

MVB 1411r. App Mus Maj, Trumpet
MVB 1412r. App Mus Maj, French Horn
MVB 1413r. App Mus Maj, Trombone
MVB 1414r. App Mus Maj, Baritone Horn
MVB 1415r. App Mus Maj, Tuba
MVJ 1410r. App Mus Maj, Piano, Jazz
MVJ 1414r. App Mus Maj, Bass, Jazz
MVJ 1416r. App Mus Maj, Saxophone, Jazz
MVJ 1417r. App Mus Maj, Trumpet, Jazz
MVJ 1418r. App Mus Maj, Trombone, Jazz.
MVJ 1419r. App Mus Maj, Drumset, Jazz
MVK 1411r. App Mus Maj, Piano
MVK 1413r. App Mus Maj, Organ
MVK 1416r. App Mus Maj, Piano Pedagogy
MVO 1410r. Modified Credit, All Instruments (2)
MVP 1411r. App Mus Maj, Percussion
MVS 1411r. App Mus Maj, Violin
MVS 1412r. App Mus Maj, Viola
MVS 1413r. App Mus Maj, Violoncello
MVS 1414r. App Mus Maj, Double Bass
MVS 1415r. App Mus Maj, Harp
MVS 1416r. App Mus Maj, Guitar
MVV 1411r. App Mus Maj, Voice
MVW 1411r. App Mus Maj, Flute
MVW 1412r. App Mus Maj, Oboe
MVW 1413r. App Mus Maj, Clarinet
MVW 1414r. App Mus Maj, Bassoon
MVW 1415r. App Mus Maj, Saxophone

MVK 1612. Directed Observation in Piano Pedagogy: Preschool through Precollege (1). This course provides students the opportunity to observe private and class piano and musicianship instruction on the preschool and precollege levels.

MVK 2121r. Class Piano (1). Prerequisite: MVK 1111 or instructor permission. This course focuses on sightreading, harmonizing, transposing, improvising, intermediate keyboard techniques, repertoire, and musicianship. For music majors other than keyboard principals and performance majors. May be repeated to a maximum of two semester hours.

MVK 2125. Keyboard Improvisation (1). Prerequisite: MUT 1112. This course is an improvisation course for keyboard principals/majors and for non-keyboard majors/principals who have met the class piano performance requirement by a proficiency exam but not the improvisation requirement.

MVS 2126. Intermediate Class Guitar (1). Prerequisite: MVS 1116 or instructor permission. This course focuses on intermediate folk guitar styles and techniques.

MV(B, H, K, O, P, S, V, W) 2220r–2229r. Applied Music Secondary (two hours each). Private instruction. (See course description for MV[B, H, K, O, P, S, V, W] 1210–1219 series.) For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four semester hours. Credit may be modified by electing MVO 2220, all instruments. All MVH courses may be taken for one or two credit hours.

MV(B, J, K, O, P, S, V, W) 2320r–2329r. Applied Music Principal (two hours each). Private instruction. Principal instrument. (See course description for MV[B, J, K, O, P, S, V ,W] 1310–1319 series.) For students whose major is not performance. Each course may be repeated to a maximum of six semester hours. Credit may be modified by electing MVO 2320, all instruments.

MV(B, J, K, O, P, S, V, W) 2420r–2429r. Applied Music Major (four hours each: piano, harpsichord, organ, strings, harp, guitar; three hours each: piano pedagogy, jazz, voice, woodwinds, brasses, percussion). Private instruction. Major instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1410–1419 series.) This course provides individual applied instruction for music performance majors. May be repeated to a maximum of twelve semester hours by piano, harpsichord, organ, string, harp, and guitar majors; nine semester hours by piano pedagogy, jazz, voice, woodwind, brass, and percussion majors. Credit may be modified by electing MVO 2420, all instruments.

MVS 2520r. String Repertory (0–1). This course is required of string performance majors. May be repeated to a maximum of three semester hours.

MVS 2526r. Guitar Repertory (1). Prerequisite: Instructor permission. Corequisite: MVS 2426r. This course is required of guitar performance majors. May be repeated to a maximum of two semester hours.

MVK 2622. Directed Observation in Piano Pedagogy: College (1). This course provides students with the opportunity to observe private and class piano instruction on the college level.

MVK 2700. Piano Accompanying Vocal (1). This course studies techniques, artistic skills, and repertory for accompanying. Required of piano performance majors.

MVK 2701. Piano Accompanying Instrumental (1). This course studies techniques, artistic skills, and repertory for accompanying. Required of piano performance majors.

MVK 3131r. Class Piano (1). Prerequisite: MVK 2121 or instructor permission. This course is a continuation of MVK 2121 with emphasis upon increased skills, including open score reading and accompanying. For music majors other than keyboard principals and performance majors. May be repeated to a maximum of two semester hours.

MVS 3136. Advanced Class Guitar (1). Prerequisite: MVS 2126 or instructor permission. This course focuses on advanced folk guitar styles and techniques.

MV(B, H, K, O, P, S, V, W) 3230r–3239r. Applied Music Secondary (two hours each). Private instruction. (See course description for MV[B, H, K, O, P, S, V, W] 1210–1219 series.) For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four semester hours. Credit may be modified by electing MVO 3230, all instruments. All MVH courses may be taken for one or two credit hours.

MV(B, J, K, O, P, S, V, W) 3330r–3339r. Applied Music Principal (two hours each). Private instruction. Principal instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1310–1319 series.) For students whose major is not performance. Each course may be repeated to a maximum of six semester hours. Credit may be modified by electing MVO 3330, all instruments.

MV(B, J, K, O, P, S, V, W) 3430r–3439r. Applied Music Major (five hours: harp; four hours each: piano, jazz, harpsichord, strings, woodwinds, brasses, percussion, guitar; three hours each: organ, voice, piano pedagogy). Private instruction. Major instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1410–1419 series.) This course provides individual applied instruction for music performance majors. May be repeated to a maximum of fifteen semester hours by harp majors; twelve semester hours by piano, jazz, harpsichord, string, woodwind, brass, percussion, and guitar majors; nine semester hours by organ, voice and piano pedagogy majors. Credit may be modified by electing MVO 3430, all instruments.

MVS 3501r. Orchestral Repertoire for Violin (1). (S/U grade only.) Prerequisite: Instructor permission. May be repeated to a maximum of two semester hours.

MVS 3530r. String Repertory (0–1). This course is required of string performance majors. May be repeated to a maximum of three semester hours.

MVV 3532r. Musical Theatre Repertoire (1). Prerequisite: Instructor permission. This course is for music theatre majors. May be repeated to a maximum of four semester hours.

MVS 3536r. Guitar Repertory (1). Prerequisite: Instructor permission. Corequisite: MVS 3436. This course is required of guitar performance majors. May be repeated to a maximum of two semester hours.

MVK 3631. Piano Pedagogy I (3). Prerequisite: Instructor permission. This course provides an introduction to a select variety of topics in the field of piano pedagogy with an emphasis on beginning students (children) at the elementary levels. Readings relate to the various topics addressed in the course.

MVK 3632. Piano Pedagogy II (3). Prerequisite: MVK 3631. This course studies intermediate piano pedagogy subjects.

MVK 3930r. Continuo Playing Keyboard (1). Prerequisite: Instructor permission. May be repeated to a maximum of two semester hours.

MVW 3700r. Introduction to Baroque Flute (1). Prerequisite: Instructor permission. This course studies the development of basic performance skills on the Baroque flute and commensurate stylistic techniques through a graduated study of available 18th-century pedagogic and performance materials. May be repeated to a maximum of four semester hours.

MVW 3701r. Introduction to the Baroque Recorder (1). Prerequisite: Instructor permission. This course studies the development of basic performance skills on the Baroque recorder and commensurate stylistic techniques through a graduated study of available 18th-century pedagogic and performance materials. May be repeated to a maximum of four semester hours.

MV(B, K, P, S, V, W) 3950. Certificate Recital (0). (S/U grade only.) Prerequisite: Instructor permission.

MV(B, K, P, S, V, W) 3970. Junior Recital (0). (S/U grade only.) Prerequisite: Instructor permission. Required junior recital for performance majors.

MV(B, H, K, O, P, S, V, W) 4240r–4249r. Applied Music Secondary (two hours each). Private instruction. (See course description for MV[B, H, K, O, P, S, V, W] 1210–1219 series.) For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four semester hours. Credit may be modified by electing MVO 4240, all instruments. All MVH courses may be taken for one or two (1–2) credit hours.

MV(B, J, K, O, P, S, V, W) 4340r–4349r. Applied Music Principal (two hours each). Private instruction. Principal instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1310–1319 series.) For students whose major is not performance. Each course may be repeated to a maximum of twelve semester hours, except MVJ series which may only be repeated to a maximum of six semester hours. Credit may be modified by electing MVO 4340, all instruments.

MV(B, J, K, O, P, S, V, W) 4440r–4449r. Applied Music Major (five hours each: piano, harpsichord, harp; four hours each: jazz, organ, strings, woodwinds, brasses, percussion, guitar; three hours each: voice, piano pedagogy). Private instruction. Major instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1410–1419 series.) This course provides individual applied instruction for music performance majors. May be repeated to a maximum of twenty semester hours by piano, harpsichord, organ, and harp majors; sixteen semester hours by string, woodwind, brass, percussion, and guitar majors; twelve semester hours by jazz, voice, and piano pedagogy majors. Credit may be modified by electing MVO 4440, all instruments.

MVJ 4448r. Applied Music Major Trombone Jazz (4). This course provides individual applied instruction for music performance majors.

MVS 4540r. String Repertory (1). This course is required of string performance majors. May be repeated to a maximum of two semester hours.

MVV 4542r. Musical Theatre Repertoire (1). Prerequisite: Instructor permission. This course is for music theatre majors. May be repeated to a maximum of four semester hours.

MVS 4546r. Guitar Repertory (1). Prerequisite: Instructor permission. Corequisite: MVS 4446. This course is required of guitar performance majors. May be repeated to a maximum of two semester hours.

MVK 4600. Organ/Harpsichord Pedagogy (2). Prerequisite: Instructor permission. This course equips students with teaching skills in organ/harpsichord.

MVO 4640. Wind Instrument and Percussion Pedagogy (3). Prerequisite: Junior standing in major instrument. This course focuses on the methods and materials of wind instrument and percussion pedagogy.

MVK 4641. Advanced Piano Pedagogy I (3). Prerequisite: Instructor permission. This course provides current and expanded pedagogy concepts and materials and techniques for teaching advanced or adult students.

MVS 4641. Violin Pedagogy (1). This course gives students the opportunity to analyze the methods, materials and approaches to violin pedagogy; to develop their teaching skills in violin performance; and to observe professional educators in various settings.

MVV 4641. Vocal Pedagogy (2). Prerequisite: Junior standing in voice. This course studies voice teaching methods.

MVK 4642. Advanced Piano Pedagogy II (3). Prerequisite: MVK 4641. This course provides current and expanded pedagogy concepts and materials and techniques for teaching advanced or adult students.

MVK 4670r. Practicum in Piano Pedagogy (2). May be repeated up to four semester hours.

MVW 4701r. Piccolo Class (1). This course develops students' understanding and concept of piccolo playing in relation to the flute, including the ability to transfer easily between the two instruments. May be repeated to a maximum of eight (8) credit hours.

MVW 4702r. Low Flute Class (1). This course helps students develop an understanding and concept of low flute playing in relation to the flute, including the ability to transfer easily between the instruments. May be repeated to a maximum of eight (8) credit hours.

MVW 4703r. Baroque Flute Class (1). This course enhances students' knowledge of performance practice, solo and ensemble literature, and the primary sources available to modern traverso players while also building on the technical and tonal skills acquired during the first semester of study and deepens their knowledge about the historical background through research.

MVK 4931. Service Playing (2). Prerequisite: Instructor permission. This course is open to all upper-division organ majors and principals.

MV(B, K, P, S, V, W) 4971r. Senior Recital (0). (S/U grade only.) Prerequisite: Completion of MV_ 333_ required and instructor permission. This course is a required senior recital for performance majors.

Graduate Courses

Composition

MUC 5110r. Composition (2).
MUC 5251r. Composition (3).
MUC 5615r. Film Scoring (3).
MUC 5625r. Jazz Composition (3).
MUC 6261r. Composition (3).

MUC 6956. Composition Doctoral Recital (3). (S/U grade only.)

Music Education

MUE 5045. Social and Historical Foundations of American Music Education (3).
MUE 5046. Sociology of Music Education (3).
MUE 5096r. Arts in Medicine Service (1–3).
MUE 5145. Significant Developments in Music Education Curricula (3).
MUE 5185. College Music Administration (3).
MUE 5316. Organizing and Teaching Elementary Music (3).
MUE 5369. Organizing and Teaching Music in General Education (3).
MUE 5396. Music in Special Education (3).
MUE 5398. Survey of Vocal Diction for Choral Music Educators (2).
MUE 5426r. Advanced Techniques in Choral and Instrumental Music: Choral (3).
MUE 5427. Advanced Techniques in Choral and Instrumental Music: Instrumental (3).
MUE 5486. Jazz Ensemble Techniques (1).
MUE 5498r. Music Education Laboratory: Choral (1).
MUE 5499r. Music Education Laboratory: Instrumental (1).
MUE 5938. Introduction to Graduate Studies in Music Education (3).
MUE 5942r. FSU Capital Children's Choir Internship (1).
MUE 5943. Internship in Music (6). (S/U grade only.)
MUE 5945r. Practicum in Supervising and Directing Education and Research in Music (3). (S/U grade only.)
MUE 6385r. College Teaching: Music in Higher Education (3).
MUE 6939r. Doctoral Seminar in Music Education (3).
MUE 6946r. Practicum in Supervising and Directing Education and Research in Music (3). (S/U grade only.)
MUS 5657. Nonverbal Communication in Human Interaction (3).
MUS 5724. Music Measurement (3).
MUY 5305. Medical Music Therapy (3).

Conducting

MUG 5205r. Advanced Conducting: Chorus (2).
MUG 5306. Advanced Conducting: Orchestra (2).
MUG 5307. Advanced Conducting I: Band (2).
MUG 5308. Advanced Conducting II: Band (2).
MUG 5957. Master's Recital: Choral Conducting (2). (S/U grade only.)
MUG 5976. Wind Ensemble/Band Master's Recital: Chamber (2). (S/U grade only.)
MUG 5977. Wind Ensemble/Band Master's Recital: Large Ensemble (2). (S/U grade only.)
MUG 5978. Master's Recital: Orchestral Conducting (2). (S/U grade only.)

Jazz Studies

MUT 5665. Jazz Styles and Analysis (2).
MVJ 5976. Master's Recital: Recital Preparation (2). (S/U grade only.)
MVJ 5977. Master's Recital (2). (S/U grade only.)

Music History

MUH 5219. Graduate Survey of Music History (2). (S/U grade only.)
MUH 5305. Seminar in Performance Practice I: Musical Performance During the Middle Ages and Renaissance (3).
MUH 5306. Seminar in Performance Practice II: Music Performance During the Baroque, Classic, and Romantic Eras (3).
MUH 5325. History of Music: Medieval (3).
MUH 5335. History of Music: Renaissance (3).
MUH 5345. History of Music: Baroque (3).
MUH 5355. History of Music: Classical (3).
MUH 5365. History of Music: Nineteenth Century (3).
MUH 5375. History of Music: Twentieth and Twenty-First Century (3).
MUH 5410. The Notation of Polyphonic Music to 1600–Black Notation (3).
MUH 5411. Notation of Polyphonic Music II (3).
MUH 5536. African Soundscapes (3).
MUH 5546. Music of Latin America (3).
MUH 5548. Music in the Caribbean (3).
MUH 5555. Music of the Middle East (3).
MUH 5576. Music of Indonesia (3).
MUH 5577. Music of Japan (3).
MUH 5580. Introduction to Ethnomusicology (3).
MUH 5581r. Seminar in Ethnomusicology (3).
MUH 5587. Seminar in World Music Studies (3).
MUH 5590. Seminar in Field and Laboratory Techniques in Ethnomusicology (3).
MUH 5596. World Music Pedagogy (3).
MUH 5635. Music in the United States I (3).
MUH 5636. Music in the United States II (3).
MUH 5655. Seminar in Performance Practice (3).
MUH 5685. Introduction to Historical Musicology (3).
MUH 5686r. Seminar in Historical Musicology (3).
MUH 5805. Survey of Jazz History (2).
MUH 5806. History of Jazz (1890–1950) (3).
MUH 5807. History of Jazz (1950 to the present) (3).
MUH 5945. Practicum in Collegium Directing (3).
MUH 6687r. Advanced Seminar in Musicology I (3).
MUH 6688r. Advanced Seminar in Musicology II (3).

Music Literature

MUL 5412. Solo Music Literature Seminar Piano: Baroque to Classic (2).
MUL 5413. Solo Music Literature Seminar Piano: Classical (2).
MUL 5414. Solo Music Literature Seminar Piano: Romantic (2).
MUL 5415. Solo Music Literature Seminar Piano: Twentieth Century (2).
MUL 5425. Chamber Music Literature for Strings (3).
MUL 5435. Guitar Literature I (2).
MUL 5436. Guitar Literature II (2).
MUL 5445. Solo Music Literature Seminar–Winds: Woodwinds (3).
MUL 5446. Solo Music Literature Seminar–Winds: Brasses (3).
MUL 5465. Percussion Literature and Resource Seminar (3).
MUL 5495. Survey of Organ Literature (1).
MUL 5507r. Orchestra Wind Repertory (2).
MUL 5568. Chamber Music Literature for Piano and Winds (2).
MUL 5609. Survey of Sacred Vocal Literature (1).
MUL 5620. Graduate Survey: German Vocal Solo Literature (1).
MUL 5621. Graduate Survey: French Vocal Solo Literature (1).
MUL 5624. Solo Music Literature Voice: German (2).
MUL 5625. Solo Music Literature Voice: French (2).
MUL 5626. Solo Music Literature Voice: Contemporary (2).
MUL 5645r. Choral Literature (2).
MUL 5647. Survey of Sacred Choral Literature (1).
MUL 5672. 20th Century Opera Literature (2).
MUL 5677. Seminar in Opera Literature: 1600–1800 (2).
MUL 5678. Seminar in Opera Literature: 19th Century (2).
MUL 5936r. Special Topics in Music Literature (1–3).

Commercial Music

MUM 5225. Theory of Piano Technology I (2).
MUM 5226. Theory of Piano Technology II (2).
MUM 5256. Piano Technology Practicum I (3).
MUM 5257. Piano Technology Practicum II (3).
MUM 5258. Piano Technology Practicum III (3).
MUM 5259. Piano Technology Practicum IV (3).
MUM 5265. Organ Design and Maintenance (2).
MUM 5805. Introduction to Arts Administration (3).
MUM 5807. Survey of Orchestra Management (3).
MUM 5808. Grant Writing for Music Professionals (3).
MUM 5815. Fundraising Strategies in the Arts (3).
MUM 5816. Audience Development, Marketing and Public Relations in Musical Arts Organizations (3).
MUM 5947r. Internship in Arts Administration (1–12). (S/U grade only.)

Music Ensembles

MUN 5115r. Marching Chiefs (0–1).
MUN 5125r. Concert Band (0–1).
MUN 5135r. Symphonic Band (0–1).
MUN 5145r. Wind Orchestra (0–1).
MUN 5146r. Chamber Winds (0–1).
MUN 5215r. University Symphony (0–1).
MUN 5315r. University Singers (0–1).
MUN 5316r. Choral Union (0–1).
MUN 5325r. Women's Glee Club (0–1).
MUN 5335r. Men's Glee Club (Collegians) (0–1).
MUN 5345r. Chamber Chorus (0–1).
MUN 5355r. Opera Chorus (0–1).
MUN 5395r. University Chorale (0–1).
MUN 5425r. Woodwind Ensemble (0–1).
MUN 5435r. Brass Ensemble (0–1).
MUN 5445r. Percussion Ensemble (0–1).
MUN 5456r. Duo Piano (1).
MUN 5465r. Chamber Music (0–1).
MUN 5477r. Collegium Musicum (0–1).
MUN 5478r. Baroque Ensemble (0–1).
MUN 5485r. Guitar Ensemble (0–1).
MUN 5515r. Piano Vocal/Instrumental Accompanying (0–1).
MUN 5715r. Jazz Ensemble (0–1).
MUN 5725r. Jazz-Pop Ensemble (0–1).
MUN 5806r. World Music Ensemble (0–1).

Opera/Music Theatre

MUO 5007r. Musical Theatre Workshop (2).
MUO 5445r. Opera Coaching (1–2).
MUO 5455r. Performance of Operatic Role (1–2).
MUO 5505r. Opera (1–4).
MUO 5605r. Opera Production (1).
MUO 5701r. Opera Directing (2).
MUO 5801. Opera Project (3).
MUO 6446r. Opera Coaching (1–2).

Church Music

MUR 5206. Hymnology (2).
MUR 5415. The Organ and Its Music From the Middle Ages to the End of the 17th Century (2).
MUR 5416. The Organ and Its Music From the Time of J. S. Bach to the Present Day (2).

Music

MUS 5226. French Language and Diction for Singers (3).
MUS 5236. German Language and Diction for Singers (3).
MUS 5246. Italian Language and Diction for Singers (3).
MUS 5325. Survey of the Music Industry (3).
MUS 5345. Music Instrument Digital Interface (3).
MUS 5346r. Laboratory for Music Instrument Digital Interface (2).
MUS 5365. Graduate Survey of Music Technology (1).
MUS 5536. Multimedia for Musicians (3).
MUS 5545. Electronics for Musicians (3).
MUS 5546. Digital Music Synthesis I (3).
MUS 5547. Digital Music Synthesis II (3).
MUS 5616. Psychology of Music (3).
MUS 5619. Behavior Modification in Music (3).
MUS 5711. Music Bibliography (2).
MUS 5721. Music Perception and Cognition (3).
MUS 5722. Descriptive Research in Music (3).
MUS 5723. Experimental Research in Music (3).
MUS 5724. Music Measurement (3).
MUS 5735r. Advanced Methods in Music Research (3).
MUS 5806r. Dynamic Integration (0–1).
MUS 5906r. Directed Individual Study (1–3). (S/U grade only.)
MUS 5910r. Supervised Research (1–3). (S/U grade only.)
MUS 5931r. Arts Administration Seminar (1).
MUS 5937r. Graduate Tutorial in Music (1–3). (S/U grade only.)
MUS 5939r. Special Topics in Music (1–3).
MUS 5940r. Supervised Teaching (1–3). (S/U grade only.)
MUS 5941r. Internship in Music Performance (0–12). (S/U grade only.)
MUS 5975. Graduate Project (2). (S/U grade only.)
MUS 6907r. Directed Individual Study (1–3). (S/U grade only.)

Music Theory

MUT 5051. Graduate Theory Survey (3).
MUT 5151. Introduction to Graduate Study in Music Theory: Survey (3).
MUT 5357. Jazz Theory/Arranging I (3).
MUT 5358. Jazz Theory/Arranging II (3).
MUT 5445. Contrapuntal Genres (3).
MUT 5573. Music Since World War II (3).
MUT 5578. Popular Music Analysis (3).
MUT 5587. Classic, Romantic, and 20th-Century Styles (3).
MUT 5618. Analysis of Masterworks 1700–1950 (3).
MUT 5619. Vocal Forms (3).
MUT 5625. Instrumental Forms (3).
MUT 5627. Introduction to Schenkerian Analysis (3).
MUT 5628. Atonal Analysis (3).
MUT 5629. Schenkerian Theory and Analysis II (3).
MUT 5646r. Jazz Improvisation I (1).
MUT 5647r. Jazz Improvisation II (1).
MUT 5655. Writing Skills: 16th-Century Counterpoint (3).
MUT 5656. Writing Skills: Fugue (3).
MUT 5665. Jazz Styles and Analysis (2).
MUT 5673. Musical Meaning and Performance (3).
MUT 5751. Pedagogy of Music Theory (3).
MUT 5752. Pedagogy of Music Theory (3).
MUT 5760. History of Music Theory (3).
MUT 6937r. Doctoral Seminar in Music Theory (3).

Music Therapy

MUY 5305. Medical Music Therapy (3).
MUY 5306r. Music Therapy in Behavioral Health & Psychosocial Care (3).
MUY 5411. Music in Counseling (2).
MUY 5612. Music Therapy Drumming (1).
MUY 5705. Assessment Instruments in Music Therapy/Music Education (2).
MUY 5935. Seminar in Music Therapy (2).
MUY 5941r. Advanced Clinical Placement in Music Therapy (2).
MUY 5946. Graduate Clinical Project (6).

Applied Music

MVO 5050r. Applied Music Graduate Coaching (1–2).
MVO 5055r. Applied Music Graduate Coaching (2–4).
MVK 5151r. Class Piano (1).
MVV 5151r. Class Voice (1).
MVS 5156. Beginning Class Guitar (1).
MV(B, H, K, O, P, S, V,W) 5250r–5259r. Applied Music Secondary (two hours each).
MVB 5251r. App Mus Sec, Trumpet
MVB 5252r. App Mus Sec, French Horn
MVB 5253r. App Mus Sec, Trombone
MVB 5255r. App Mus Sec, Tuba
MVH 5256r. App Mus Sec, Plucked Instruments (1–2).
MVH 5257r. App Mus Sec, Bowed Strings (1–2).
MVK 5251r. App Mus Sec, Piano
MVK 5252r. App Mus Sec, Harpsichord
MVK 5253r. App Mus Sec, Organ

MVO 5250r. Modified Credit, All Instruments (1).
MVP 5251r. App Mus Sec, Percussion
MVS 5251r. App Mus Sec, Violin
MVS 5252r. App Mus Sec, Viola
MVS 5253r. App Mus Sec, Violoncello
MVS 5254r. App Mus Sec, Double Bass
MVS 5255r. App Mus Sec, Harp
MVS 5256r. App Mus Sec, Guitar
MVV 5251r. App Mus Sec, Voice
MVW 5251r. App Mus Sec, Flute
MVW 5252r. App Mus Sec, Oboe
MVW 5253r. App Mus Sec, Clarinet
MVW 5254r. App Mus Sec, Bassoon
MVW 5255r. App Mus Sec, Saxophone
MV(B, J, K, O, P, S, V, W) 5350r–5359r. Applied Music Principal (two hours each).
MVB 5351r. App Mus Prin, Trumpet
MVB 5352r. App Mus Prin, French Horn
MVB 5353r. App Mus Prin, Trombone
MVB 5354r. App Mus Prin, Baritone Horn
MVB 5355r. App Mus Prin, Tuba
MVJ 5350r. App Mus Prin, Piano, Jazz
MVJ 5351r. App Mus Prin, Voice, Jazz
MVJ 5353r. App Mus Prin, Guitar, Jazz
MVJ 5354r. App Mus Prin, Bass, Jazz
MVJ 5356r. App Mus Prin, Saxophone, Jazz
MVJ 5357r. App Mus Prin, Trumpet, Jazz
MVJ 5358r. App Mus Prin, Trombone, Jazz
MVJ 5359r. App Mus Prin, Percussion, Jazz
MVK 5351r. App Mus Prin, Piano
MVK 5352r. App Mus Prin, Harpsichord
MVK 5353r. App Mus Prin, Organ
MVO 5350r. Modified Credit, All Instruments (1).
MVP 5351r. App Mus Prin, Percussion
MVS 5351r. App Mus Prin, Violin
MVS 5352r. App Mus Prin, Viola
MVS 5353r. App Mus Prin, Violoncello
MVS 5354r. App Mus Prin, Double Bass
MVS 5355r. App Mus Prin, Harp
MVS 5356r. App Mus Prin, Guitar
MVV 5351r. App Mus Prin, Voice
MVW 5351r. App Mus Prin, Flute
MVW 5352r. App Mus Prin, Oboe
MVW 5353r. App Mus Prin, Clarinet
MVW 5354r. App Mus Prin, Bassoon
MVW 5355r. App Mus Prin, Saxophone
MV(B, J, K, O, P, S, V, W) 5450r–5456r. Applied Music Major (four hours each) (MVV 5451 three hours).
MVB 5451r. App Mus Maj, Trumpet
MVB 5452r. App Mus Maj, French Horn
MVB 5453r. App Mus Maj, Trombone
MVB 5454r. App Mus Maj, Baritone Horn
MVB 5455r. App Mus Maj, Tuba
MVJ 5457r. App Mus Maj, Trumpet, Jazz
MVJ 5459r. App Mus Maj, Percussion, Jazz
MVK 5451r. App Mus Maj, Piano
MVK 5453r. App Mus Maj, Organ
MVO 5450r. Modified Credit, All Instruments (2).
MVP 5451r. App Mus Maj, Percussion
MVS 5451r. App Mus Maj, Violin
MVS 5452r. App Mus Maj, Viola
MVS 5453r. App Mus Maj, Violoncello
MVS 5454r. App Mus Maj, Double Bass
MVS 5455r. App Mus Maj, Harp
MVS 5456r. App Mus Maj, Guitar
MVV 5451r. App Mus Maj, Voice
MVW 5451r. App Mus Maj, Flute
MVW 5452r. App Mus Maj, Oboe
MVW 5453r. App Mus Maj, Clarinet
MVW 5454r. App Mus Maj, Bassoon
MVW 5455r. App Mus Maj, Saxophone
MVS 5505r. Orchestral Repertoire for Violin (1). (S/U grade only.)
MVS 5550r. String Repertory (0–1).
MVS 5650. Violin Pedagogy. (1)
MVV 5552r. Musical Theatre Repertoire (1).
MVS 5556r. Guitar Repertory (1).
MVK 5605. Organ/Harpsichord Pedagogy (2).
MVO 5650. Pedagogy for Winds and Percussion (3).
MVK 5651. Piano Pedagogy I (3).
MVV 5651. Seminar in Vocal Pedagogy (2).
MVW 5651. Flute Pedagogy (0–1).
MVK 5652. Piano Pedagogy II (3).
MVK 5661. Advanced Piano Pedagogy I (3).
MVK 5662. Advanced Piano Pedagogy II (3).
MVK 5671. Practicum in Piano Pedagogy (2).
MVK 5681r. Applied Music Major: Piano Pedagogy (4).
MVW 5705r. Introduction to the Baroque Flute (1).
MVW 5706r. Introduction to the Baroque Recorder (1).
MVK 5710. Piano Accompanying–Vocal (1).
MVK 5711. Piano Accompanying–Instrumental (1).
MVK 5730r. Applied Music Major, Vocal Accompanying (4).
MVK 5731r. Applied Music Major, Instrumental Accompanying (4).
MVK 5732r. Applied Music Opera Coaching (4).
MVK 5745. Techniques of Vocal Coaching (2).
MVK 5746. Techniques of Coaching Chamber Music (2).
MVK 5747. Techniques of Opera Coaching (2).
MVW 5751r. Advanced Piccolo Class (1).
MVW 5752r. Advanced Low Flute Class (1).
MVW 5753r. Advanced Baroque Flute Class (1).
MVK 5935r. Continuo Playing Keyboard (1).
MVK 5936. Service Playing (2).
MV(K, S) 5955. Certificate Recital (0). (S/U grade only.)
MV(B, K, P, S, W) 5976–5977. Master's Recital (two hours each). (S/U grade only.)
MVV 5976r. Master's Voice Recital Coaching (2).
MVV 5977. Master's Recital (Voice) (0). (S/U grade only.)
MVK 5973r. Master's Recital, Vocal Accompanying (1). (S/U grade only.)
MVK 5974r. Master's Recital, Instrumental Accompanying (1). (S/U grade only.)
MVK 5975. Master's Recital: Piano Pedagogy (0). (S/U grade only.)
MVO 6060r. Applied Music Graduate Coaching (1–2).
MVO 6065r. Applied Music Graduate Coaching (2–4).
MV(B, K, O, P, S, V, W) 6260r–6266r. Applied Music Secondary (two hours each).
MVO 6260r. Modified credit, All Instruments (1).
MV(B, K, O, S, V, W) 6360–6369r. Applied Music Principal (two hours each).
MVO 6360r. Modified credit, All Instruments (1).
MV(B, K, O, P, S, V ,W) 6460r–6469r. Applied Music Major (four hours each).
MVB 6461r. App Mus Maj, Trumpet
MVB 6462r. App Mus Maj, French Horn
MVB 6463r. App Mus Maj, Trombone
MVB 6464r. App Mus Maj, Euphonium
MVB 6465r. App Mus Maj, Tuba
MVK 6461r. App Mus Maj, Piano
MVK 6463r. App Mus Maj, Organ
MVO 6460r. Modified Credit, All Instruments (2).
MVP 6461r. App Mus Maj, Percussion

MVS 6461r. App Mus Maj, Violin
MVS 6462r. App Mus Maj, Viola
MVS 6463r. App Mus Maj, Violoncello
MVS 6464r. App Mus Maj, Double Bass
MVS 6466r. App Mus Maj, Guitar
MVS 6469r. App Mus Maj, Certificate
MVV 6461r. App Mus Maj, Voice
MVW 6461r. App Mus Maj, Flute
MVW 6462r. App Mus Maj, Oboe
MVW 6463r. App Mus Maj, Clarinet
MVW 6464r. App Mus Maj, Bassoon
MVW 6465r. App Mus Maj, Saxophone
MVS 6560r. String Repertory (0–1).
MVS 6566r. Guitar Repertory (1).
MVV 6661. Vocal Pedagogy Seminar I (3).
MVV 6662. Vocal Pedagogy Seminar II (3).
MVK 6733r. Applied Music Major Accompanying (4).
MVV 6978r. Doctoral Voice Recital and Repertoire Coaching (2).
MV(B, K, P, S, V, W) 6985–6989. Doctoral Recital (one to four hours each). (S/U grade only.)

For listings relating to graduate coursework for thesis, treatise, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

NEUROSCIENCE:
see *Graduate Bulletin*

NURSING
Undergraduate Programs

College of Nursing

Website: *http://nursing.fsu.edu/*

Associate Deans: Baker, McDougall; **Professors:** Karioth, Lowe, McDougall, McFetridge-Durdle, Whyte, Wong; **Associate Professors:** Cormier, Millender, Park; **Assistant Professors:** Abbott, Bahorski, Bamber, Dickey, Graven, Martorella, Park, Porterfield; **Teaching Faculty III:** Baker, Greenhalgh, Kung, Tucker, Whyte; **Teaching Faculty II**: Barfield, Campbell, Craig-Rodriguez, Hayes, Newlin, Scott-King, Winton; **Teaching Faculty I:** Brewer, Cuchens, Keane, Kendall, Wheeler; **Assistant in Research:** Schluck

The College of Nursing offers a Bachelor of Science in Nursing (BSN) for traditional, accelerated second-degree, and veteran students. The undergraduate program is approved by the Florida Board of Nursing and accredited by the Commission on Collegiate Nursing Education (*http://www.ccneaccreditation.org/*). At the completion of the program the student will have met all major requirements for the BSN. The graduate of the undergraduate nursing program will have met the academic eligibility requirements for taking the registered nurse state licensing examination. The mission of the College of Nursing is to educate clinicians, leaders, scholars, and advanced practitioners who can enhance the quality of life for people of all cultures, economic levels, and geographic locations. The College of Nursing integrates the liberal arts and sciences with the knowledge, skills, and attitudes essential for lifelong learning, personal responsibility, and sustained achievement in the nursing professional and the communities in which our graduates work.

The program is an upper-division limited access major, accepting students in the junior year, with required sequential course offerings and elective courses in nursing. The nursing courses are based on concepts and principles from liberal studies, the supporting biological and behavioral sciences, and nursing. This theoretical base is used with the nursing process in the systematic development of nursing care for individuals and groups in a variety of health care settings.

The College of Nursing offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Office and Honor Societies" section of this *General Bulletin*.

For complete details of programs offered and admission requirements, plus a description of the college, its facilities, opportunities, and available financial assistance, refer to the "College of Nursing" chapter of this *General Bulletin*. For current course offerings, please refer to the FSU College of Nursing Web site, at *http://nursing.fsu.edu/*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in nursing and accelerated nursing satisfy this requirement by earning a grade of "C" or higher in NUR 4169.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Nursing

1. BSC X085C or BSC X085/X085L or BSC X093C or BSC X093/X093L
2. BSC X086C or BSC X086/X086L or BSC X094C or BSC X094/X094L
3. CHM XXXX or BCH XXXX or BSC XXXX or PCB XXXX or PHY XXXX
4. DEP X004 or DEP X054 or DEP X000 or DEP X414
5. HUN X201 or NUR X192

6. MCB X010C or MCB X010/X010L or MCB X013C or MCB X013/X013L or MCB X000/X000L or MCB X004/X004L
7. PSY XXXX or SOP XXXX or SYG XXXX
8. STA X014 or STA X023 or STA X122 or STA X022

Note: Epidemiology (three credit hours) is recommended but not required.

Definition of Prefixes

NGR—Nursing: Graduate
NSP—Nursing: Special
NUR—Nursing: Generic Undergraduate

Undergraduate Courses

Theory/Laboratory Courses Required

NUR 3026L. Integrated Nursing Skills Lab (1). (S/U grade only.) Prerequisite: Admission to the Nursing Program. Corequisites: NUR 3056, NUR 3056L, NUR 3065, and NUR 3065L. This course gives nursing students the opportunity to practice nursing skills learned in Foundations and Health Assessment classes. This course uses deliberate practice to reinforce quality and safety issues, integrating these skills into therapeutic nursing interventions. As students gain competency, scenarios of nursing care are introduced and the students are asked to implement their skills into providing safe, effective, evidence-based patient care.

NUR 3033C. Transition to Professional Nursing Practice for Veterans (6). Prerequisite: Admission to the Undergraduate Nursing Program. This course establishes the skillset of students who served as Corpsman and Medics within the context of professional nursing and to facilitate their transition to the Registered Nurse role. The course uses a body systems based approach to introduce assessment and fundamental aspects of nursing care. Each week, a new body system is introduced, along with the elements of practice and clinical decision-making dictated by the nursing process. The course also serves to prepare the veteran student for future clinical experiences.

NUR 3056. Foundations of Nursing Practice (3). Prerequisite: Admission to the Nursing major. Corequisite: Semester I Nursing courses. This course introduces the nursing student to the foundations of professional nursing practice which includes multidimensional aspects of clients/families, the relationship between quality of care and client outcomes, patient safety, communication, and use of evidence to support practice.

NUR 3056L. Foundations of Nursing Practice Lab (2). (S/U grade only.) Prerequisite: Admission to the Nursing major. Corequisite: Semester I Nursing courses. This course provides the application component of NUR 3056. Under the guidance of lab instructors, the student is given opportunities to integrate theoretical knowledge from NUR 3056 in practice sessions. Demonstration; low, medium, and high fidelity simulation scenarios; deliberate practice methods; debriefing; and reflective instructional approaches are used.

NUR 3065. Health Assessment, Wellness and Prevention Across the Lifespan (3). Prerequisite: Admission to the Nursing major. Corequisite: Semester I Nursing courses. This course introduces the nursing student to concepts and models of wellness and health promotion for individuals, families, and communities. Included are communication and interview techniques in compiling a health history, technical skills in performing a physical exam, clinical reasoning skills in doing a health risk appraisal, formulating nursing diagnoses appropriate to identified problems, and understanding the role of the nurse in patient education. Client's cultural differences, development stage, family structure, economic situation, and health behaviors are considered when evaluating health status. In addition, the role of the nurse in patient education is emphasized.

NUR 3065L. Health Assessment, Wellness and Prevention Across the Lifespan Lab (1). (S/U grade only.) Prerequisite: Admission to the Nursing major. Corequisite: Semester I Nursing courses. This course provides the application component of NUR 3065. Under the guidance of lab instructors, the student is given opportunities to integrate theoretical knowledge from NUR 3065 in practice sessions using demonstration; low, medium, and high fidelity simulation scenarios; deliberate practice; debriefing; and reflective instructional approaches.

NUR 3125. Pathophysiological Concepts in Nursing (4). Prerequisite: BSC 2085 (C or better) and BSC 2086 (C or better). This course introduces the undergraduate nursing student to general body responses and alterations in disease across the lifespan. Topics cover physiological concepts, alterations in body systems, and clinical manifestations.

NUR 3145. Pharmacological Concepts in Nursing (2). Prerequisite: Admission to the Nursing major. Corequisite: Semester I Nursing courses. This course introduces the nursing student to foundational concepts in pharmacology and their application in health care settings. Pharmacological concepts include pharmacodynamics, pharmacokinetics and pharmacogenomics, drug toxicity, and major drug classifications. Application concepts include drug therapy and patient safety, the role of the Federal Drug Administration (FDA), dosage calculation, and the nursing role in drug therapy.

NUR 3225. Nursing Care of the Adult with Acute and Chronic Health Disorders (3). Prerequisite: Semester I Nursing courses. Corequisite: Semester II Nursing courses. This course focuses on nursing care of adults and their families with acute and chronic health disorders. Pathophysiologic, psychological, and sociocultural processes and environmental issues associated with acute and chronic health disorders in adults are presented. Critical reasoning and problem solving skills are used in designing care to promote positive health outcomes.

NUR 3225L. Nursing Care of the Adult with Acute and Chronic Health Disorders Lab (4). (S/U grade only.) Prerequisite: Semester I Nursing courses. Corequisite: Semester II Nursing courses. This course provides the application component of NUR 3225. Under the guidance of clinical instructors, the student is given opportunities to integrate theoretical knowledge from NUR 3225 in both simulated and clinical sessions. Deliberate practice, debriefing, and reflective instructional approaches are used in both settings.

NUR 3678. Nursing Care of Vulnerable Populations (4). Prerequisites: NUR 3056C, NUR 3065C, NUR 3125, and NUR 3822. Corequisite: NUR 3636L. This course examines the application of nursing and related theories to the care of vulnerable populations throughout the life cycle. Emphasis is placed on nursing care of the elderly, clients with psychosocial disorders, and at-risk culturally diverse populations in the community. The impact of poverty, environment, support networks, health policy, and community resources on vulnerable populations and health outcomes is explored. The focus is on promoting client independence and maximizing quality of life of vulnerable individuals, families and communities.

NUR 3678L. Nursing Care of Vulnerable Populations Lab (3). (S/U grade only.) Prerequisite: Semester I Nursing courses. Corequisite: Semester II Nursing courses. This course provides the application component of NUR 3678. Under the guidance of clinical instructors, the student is given opportunities to integrate theoretical knowledge from NUR 3678 in clinical sessions. Emphasis is placed on nursing care of the elderly, clients with psychosocial disorders, and at risk culturally diverse populations in the community. The impact of poverty, environment, support networks, health policy, and community resources on vulnerable populations and health outcomes is explored. The focus is on promoting client's independence and maximizing quality of life of vulnerable individuals, families, and communities.

NUR 3816. Professional Perspectives in Nursing (2). Prerequisite: Semester I Nursing courses. Corequisite: Semester II Nursing courses. This course introduces the student to the historical and theoretical perspectives that have impacted the development of nursing. The progression of nursing toward professionalism is explored, including foundational concepts such as ethics, advocacy, and legal issues.

NUR 4169. Evidence-Based Nursing (2). Prerequisites: Semesters I and II Nursing courses. Corequisites: Semester III Nursing courses. This course introduces students to major systematic approaches to the development and improvement of nursing practice including evidence-based practice, quality improvement, and research. Inquiry through evidence-based approaches and research are discussed. Focus is placed on the processes of finding, reading, appraising, critiquing, and synthesizing evidence to improve practice.

NUR 4445. Nursing Care of Women, Children, and Families (4). Prerequisites: Semester I and II Nursing courses. Corequisites: Semester III Nursing courses. This course focuses on individuals and their families during the childbearing and childrearing phases of family development. Physiologic, psychological, sociocultural, and pathophysiologic processes and environmental issues associated with childbearing and childrearing are presented. The nurse's role in health promotion is emphasized. Illness and complications are examined. Issues related to preserving, promoting, and restoring health status of family members are emphasized. The application of competencies and skills may occur in a simulated setting.

NUR 4555L. Nursing Care of Women, Children and Families Lab (3). (S/U grade only.) Prerequisites: Traditional BSN Prerequisites: NUR 3225, NUR 3225L, NUR 3678, NUR 3678L, NUR 3816. Traditional BSN Corequisites: NUR 4445, NUR 4766, NUR 4766L, NUR 4169. Accelerated BSN Prerequisites: NUR 3056, NUR 3056L, NUR 3065, NUR 3065L, NUR 3026L, NUR 3145, NUR 3816, NUR 4169, NUR 4667. Accelerated BSN Corequisites: NUR 3225L, NUR 4445, NUR 3678. This course provides the application component of NUR 4445. Under the guidance of clinical instructors, the student is given opportunities to integrate theoretical knowledge from NUR 4445 in both simulated and clinical sessions. Deliberate practice, debriefing, and reflective instructional approaches are used in both settings.

NUR 4667. Population Health in Nursing (1). Prerequisites: NUR 4445, NUR 4555L, NUR 4766, and NUR 4766L. Corequisites: NUR 4828, NUR 4888, NUR 4888L, and NUR 4945. This course introduces students to global health, the U.S. healthcare system, the social determinants of health, environmental health, emerging infectious disease, disaster planning and population support during disasters, and other mass casualty situations. In addition, using Healthy People/WHO indicators in evidence based decision making and utilizing the process of community assessment including the tools of epidemiology and biostatistics are reinforced.

NUR 4766. Nursing Care of Adults and Populations with Complex Health Disorders (4). Prerequisites: NUR 3056C, NUR 3065C, NUR 3125, NUR 3225C, NUR 3636L, NUR 3678, NUR 3822, and NUR 4445C. This course focuses on the nursing management of adults and their families in acute care and appropriate community care settings. Critical reasoning and problem solving skills are used to address safe intervention and evaluation outcomes appropriate to the health care needs of adults and families experiencing complex health disorders. The course includes content on the triage of care of patients during events that result in widespread illness or mass casualties.

NUR 4766L. Nursing Care of Adults/Populations with Complex Health Disorders Lab (3). (S/U grade only.) Prerequisites: Semester I and II Nursing courses. Corequisite: NUR 4766. This laboratory course focuses on the application of the nursing process, concepts, principles, and technological competencies while providing nursing interventions to adults and their families experiencing complex and multi-system health disorders. Effectiveness of nursing interventions and expected outcomes are evaluated. The application of competencies and skills may occur in a simulated setting.

NUR 4828. Transition to Nursing Practice (1). Prerequisites: NUR 4445, NUR 4555L, NUR 4766, and NUR 4766L. Corequisites: NUR 4888, NUR 4888L, and NUR 4945. This course explores the multiple roles and opportunities for the professional registered nurse. Topics related to practice issues are addressed. Strategies for transition from academia to practice environments are analyzed and include the development of a personal career plan.

NUR 4837C. Nursing leadership in Systems of Care (3). Prerequisites: Traditional BSN: NUR 4445, NUR 4766, NUR 4766L, NUR 4169. Traditional BSN Corequisites: NUR 4667, NUR 4945. Accelerated BSN prerequisites: NUR 3026L, NUR 3056, NUR 3056L, NUR 3065, NUR 3065L, NUR 3145, NUR 3816, NUR 4169, NUR 3026L, NUR 4667. Accelerated BSN Corequisites: NUR 3225, NUR 3225L, NUR 4445, NUR 4555L, NUR 3678. This course focuses on concepts, principles, and theories of leadership, management, role development and administration in a variety of settings. This course emphasizes skill development for the nurse leader and includes: delegation, collaboration, budgeting, cost effectiveness and resource allocation, risk management, quality and performance indicators.

NUR 4888. Nursing Leadership in Systems of Care (3). Prerequisites: Semester I, II, and III Nursing courses. Corequisites: Semester IV Nursing courses. This course focuses on concepts, principles, and theories of leadership, management, role development and administration in a variety of culturally diverse health care delivery systems at local, regional, national, and global levels. Skills required by the professional nurse leader, including delegation of responsibilities, networking, facilitation of groups, conflict resolution, case management, collaboration, budgeting, cost effectiveness and resource allocation, risk management, quality and performance indicators, teaching, and professional development are emphasized and applied in relevant settings.

NUR 4888L. Nursing Leadership in Systems of Care Lab (2). (S/U grade only). Prerequisites: Semester I, II, III Nursing courses. Corequisites: Semester IV Nursing courses. This course provides the application component of NUR 4888. Under the guidance of clinical instructors, the student is given opportunities to integrate theoretical knowledge from NUR 4888 in clinical sessions. Deliberate practice, debriefing, and reflective instruction approaches are used. Skills required by the professional nurse leader, including delegation of responsibilities, networking, facilitation of groups, conflict resolution, case management, collaboration, budgeting, cost effectiveness and resource allocation, risk management, quality and performance indicators, teaching and professional development are emphasized and applied in relevant settings.

NUR 4945. Professional Nursing Internship (6). (S/U grade only.) Prerequisites: NUR 3056, NUR 3056L, NUR 3065, NUR 3065L, NUR 3125, NUR 3145, NUR 3816, NUR 3225, NUR 3225L, NUR 3678, NUR 3678L, NUR 4169, NUR 4766, NUR 4766L, NUR 4445, NUR 4445L. Corequisites: NUR 4888, NUR 4888L, NUR 4667, NUR 4828. This course occurs following the completion of all required nursing courses. This capstone clinical experience requires the student to demonstrate competencies consistent with program outcomes. Synthesis of core values, core competencies, core knowledge, cultural humility, and role development is expected. The student collaborates with the faculty and the preceptor in choosing the care setting as well as planning and organizing the learning experience to facilitate a successful transition into the profession.

NUR 4946L. Nursing Care in Specialty Areas Laboratory (1–6). (S/U grade only.) Prerequisite: Completion of the second semester in the Nursing Program. This course provides internships in specialized areas of clinical practice with a focus on managing patient care in selected areas such as surgery, special procedure areas, endoscopy, dialysis, or PACU.

Electives

NSP 3185. Multicultural Factors and Health (3). This course is a comparative analytical approach to the study of communication, current problems, issues, health care beliefs, values, and practices of different systems and cultural norms as they affect health care practices that conflict with ethnic or cultural communication related to standards and value systems.

NSP 3425. Women's Health Issues: Concerns Through the Life Cycle (3). This course focuses on issues related to women throughout the life cycle including sexuality, obesity, anorexia, cancer, etc. Emphasis is on prevention of illness and rights to health care access.

NSP 3685. Grief, Loss and Trauma: Ethnic and Individual Variations (3). This course explores similarities and differences among cultures when responding to grief and loss. Topics related to diverse populations and grief practices are examined, as well as personal response to grief, loss, and trauma; not exclusively utilizing death as the only example of loss, or trauma. The course allows students to expand their reactions to life and death, plan their own funeral, and at the same time focus on family, community, and worldwide populations.

NUR 3076. Communication in Health Care (3). Prerequisite: ENC 1101. This course examines various communication patterns basic to individual and group relationships. Course emphasizes the development of interactive skills paramount to effective communication with individuals and groups involved with health care issues. It provides an opportunity for the validation of oral communication and a range of public speaking experiences especially related to health care.

NUR 3177. Holistic and Complementary Approaches to Health and Healing (3). This course is designed to explore knowledge of practices that promote health and well-being. Emphasis is on stress management and body-mind-spirit communication. A variety of holistic and complementary approaches to health and healing are explored.

NUR 4905r. Directed Individual Study (1–4). May be repeated to a maximum of six semester hours.

NUR 4930r. Special Topics (1–3). This course consists of topics of interest relating to nursing and other health-related issues. May be repeated to a maximum of nine semester hours.

NUR 4931Lr. Special Topics Lab (2–4). (S/U grade only.) This course focuses on perioperative nursing clinical practice with experiences in managing patients through multiple phases of perioperative nursing. These phases include: pre-operative intra-operative, and post-operative nursing care. The course focuses on the knowledge and skills associated with caring for surgical patients. May be repeated to a maximum of eight semester hours.

NUR 4975r. Honors Thesis (1–6). May be repeated to a maximum of nine semester hours.

Graduate Courses

NGR 5003. Health Assessment for Advanced Practice (2).
NGR 5003L. Health Assessment Laboratory for Nurse Practitioners (2). (S/U grade only.)
NGR 5056C. Advanced Psychiatric Assessment and Diagnostics (3).
NGR 5064C. Advanced Skills for the Advanced Practice Nurse (2).
NGR 5102. Theoretical Constructs for Nursing Science (3).
NGR 5112C. Advanced Clinical Practice for Nurse Educators (4).
NGR 5140. Advanced Pathophysiological Concepts In Nursing Science (3).
NGR 5172. Pharmacology for Advanced Practice (3).
NGR 5503. Psychiatric-Mental Health Nurse Practitioner: Individual Psychotherapy (3).
NGR 5503L. Psychiatric-Mental Health Nurse Practitioner: Individual Psychotherapy Clinical Lab (3).
NGR 5504L. Psychiatric/Mental Health Nursing Practicum (5) (S/U grade only.)
NGR 5508. Psy./Mental Health Ns. Practitioner II: Family & Group Psychotherapy (3).
NGR 5508L. Psy./Mental Health Ns. Pr II: Family & Group Psychotherapy Lab (3).
NGR 5538. Psychopharmacology for Advanced Practice Psychiatric Nursing (3).
NGR 5638. Health Promotion and Program Planning (3).
NGR 5714C. Instruction in Nursing Education: Design and Strategies (4).
NGR 5718C. Evaluation in Nursing Education (4).
NGR 5766. Nursing Leadership within Complex Healthcare Environments (3).
NGR 5772L. Clinical Leadership Practicum I (3). (S/U grade only.)
NGR 5773L. Clinical Leadership Practicum II (3). (S/U grade only.)
NGR 5800. Methods in Nursing Research (3).
NGR 5846. Biostatistics (3).
NGR 5871. Managing Information and Technology in Health Systems (3).
NGR 5887. Legal and Ethical Complexities in Healthcare (3).
NGR 5891. Healthcare Policy for Nurse Leaders (3).
NGR 5894. Global Health (1–2).
NGR 5905r. Directed Independent Study (1–3).
NGR 5930r. Special Topics in Nursing (1–3).
NGR 5933L. Special Topics Lab (2). (S/U grade only).
NGR 5941Lr. Supervised Teaching Laboratory (1–5).
NGR 6185. Genetics and Emerging Diseases (3).
NGR 6194. Orthopedics for Advance Practice Nursing (3).
NGR 6304. Issues in Pediatrics for Advance Practice Nursing (3).
NGR 6348. Women's Health Care for Family Advanced Practice Nurses (3).
NGR 6506. Mental Health Care Coordination in Primary Care (3).
NGR 6601. Advanced Management of the Family I (3).
NGR 6601L. Family Nurse Practitioner Practicum I (4). (S/U grade only.)
NGR 6602. Advanced Management of the Family II (3).
NGR 6602L. Family Nurse Practitioner Practicum II (4). (S/U grade only.)
NGR 6619L. Family Nurse Practitioner Practicum III (5). (S/U grade only.)
NGR 6674. Population Health and Applied Epidemiology (3).
NGR 6768. DNP Roles and Interprofessional Collaboration (3).
NGR 6853. Translation and Synthesis of Evidence (3).
NGR 6893. Healthcare, Finances, Economics, and Entrepreneurship (3).
NGR 6895. Healthcare Policy, Politics, and Power (3).
NGR 6897L. Health Systems Leadership Practicum III (5). (S/U grade only.)

NGR 6899. Transforming Health Care Delivery (3).
NGR 6910C. DNP Project III: Implementation and Data Analysis (1). (S/U grade only.)
NGR 6912C. DNP Project IV: Dissemination (1). (S/U grade only.)
NGR 6931. Project I, Proposal Development (1). (S/U grade only.)
NGR 6935C. DNP Project II: IRB Protection of Human Subjects (1). (S/U grade only.)
NGR 6942Lr. DNP Practicum IV (1–5). (S/U grade only.)
NGR 6943L. DNP Practicum V (1–5). (S/U grade only.)
NGR 7769. DNP Roles and Leadership within Complex Healthcare Environments (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of NUTRITION, FOOD AND EXERCISE SCIENCES

College of Human Sciences

Web Page: *https://humansciences.fsu.edu/nutrition-food-exercise-sciences/*
Chair and Professor: Ray; **Assistant Chair and Teaching Faculty:** Garber; **Professors:** Arjmandi, Delp, Hickner, Kim, Panton, Ray; **Associate Professors:** Ormsbee, Salazar; **Assistant Professors:** Berryman, Gordon, Hennigar, Hwang, Koutakis, LaFavor, Parvativar, Rao, Singh, Steiner; **Teaching Faculty III:** Farrell, Garber, Sehgal; **Teaching Faculty I:** Griffiths, Ghosh, Maier, Trone, Williams; **Adjunct Professors:** Magnuson, Stowers; **Professors Emeriti:** Dorsey, Erdman, Harris, Haymes, Hsieh, Kassouny, Toole; **Affiliate Faculty:** Dilks, Hernandez, Hutcherson, Latimer, Pfeil, Robinson, Stone; **Courtesy Faculty:** Blasco, Burkhart, Clay, Conti, Daggy, Florian, Lima, Rahnama; **Advisory Board Members:** Daggy, Derman, Hamilton, Hennig, Katch, Koo, Weaver

The Department of Nutrition, Food and Exercise Sciences offers four Bachelor of Science degrees: Athletic Training, Dietetics, Exercise Physiology, and Food and Nutrition.

Athletic Training

Students entering the undergraduate program as of Fall 2016 will be required to complete a graduate professional athletic training program in order to become Board of Certification eligible. A major in athletic training is offered to students interested in working with injury prevention, recognition, immediate care, rehabilitation, health care management, and professional development in a sports medicine environment. Athletic training students have opportunities to gain clinical experience in a variety of sports settings, both on and off campus. Access to the athletic training program is limited by restricting the number of students admitted annually to match the available resources. The admission requirements and procedures for the athletic training program at Florida State University include common entry indicators. The common indicators included in each student's portfolio will be ranked as follows:

1. FSU cumulative grade point average of 2.5 or better based on at least fifteen hours of FSU coursework (weighted rank of GPA at 50%)
2. SAT/ACT scores (weighted rank of SAT/ACT at 25%)
3. Interview score (weighted rank of interview score at 25%).

In order to be eligible for the interview, the student must complete an application portfolio that includes: completion of Technical Standards for Admission, clinical activity log sheets, a résumé, two letters of recommendation, official copies of all post-secondary transcripts, SAT scores, and current enrollment in or completion of ATR 1800.

Composite applicant scores, based on the above indicators, are calculated and ranked. The number of athletic training applicants admitted is determined by available vacancies created by graduation. The top-ranking students are then admitted to fill the vacancies. The Athletic Training Program includes a strict didactic and clinical course progression. New student admission is completed by May 31 of each year. New athletic training students enroll in the first block of courses the following Fall semester. Community college students are required to complete the same application process as resident students. Please see the Athletic Training Education Program website for retention policies.

Dietetics

The purpose of the **dietetics degree program** is to provide the foundation knowledge and skills required for the didactic component of entry-level dietetics education. This Didactic Program in Dietetics (DPD) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics (AND), *120 South Riverside Plaza, Suite 2000, Chicago, IL 60606-6995; (312) 899-0040 (ext. 5400)*. Graduates of the DPD program may earn a DPD verification statement and are eligible to apply to graduate school and/or post-baccalaureate, accredited dietetic internships. An accredited dietetic internship is required for eligibility to take the national Registration Examination for Dietitians. Careers are available for registered dietitians in clinical, research, community food service management, consulting, and educational settings. The dietetics degree program is a limited access program; students apply spring of their sophomore year. Admission requirements and procedures for the Dietetics degree at Florida State University include: minimum GPA of 2.75, a grade of "S" in DIE 3005, a résumé, and a personal statement. It is highly recommended that students earn a "B" or better in the following: Chemistry I, Chemistry II, Organic Chemistry, and corresponding labs. Once formally admitted, the program is two years. Please see the dietetics web page for more information regarding admission to the degree.

The FSU post-baccalaureate dietetic internship (DI) program is the supervised practice component of dietetics education available only to graduate students in the department and is required for eligibility to take the national Registration Examination for Dietitians administered by the Commission for Dietetics Registration. The purpose of the internship is to provide students with supervised practice experiences that train interns for the competencies required by entry level positions in dietetics and nutrition practice. Careers are available for registered dieticians in clinical, research, community food service management, consulting, and educational settings. Fifteen graduate students are accepted annually to the graduate internship program through an internship application process.

Exercise Physiology

The **exercise physiology major** prepares students for graduate study in exercise physiology, physical therapy, and other health fields, including medical school, as well as positions as personal trainers and health fitness instructors with both hospital-based wellness programs and corporate fitness programs.

Food and Nutrition Science

The **food and nutrition science major** has a strong science base that prepares students for job opportunities in the food industry, government agencies, and careers in the medical field as well as graduate study in nutrition, food science, or agriculture.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in athletic training, exercise science, and food and nutrition science satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or BSC 2010L. Undergraduate majors in dietetics satisfy this requirement by earning a grade of "C–" or higher in CGS 2060.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Athletic Training

1. BSC X010/X010L or BSC X010C
2. PHY X053/X053L or PHY X053C or PHY X048/X048L or PHY X048C
   Note: Physics is a prerequisite; however, a program may choose to waive this coursework as a prerequisite but still require it as a graduation requirement.
3. PSY X012
4. STA X023 or STA X122 or STA X201
5. HUN X201 or HUN X941 or HUN X002 or HSC X577
6. BSC X093/X093L and BSC X094/X094L, or PET X322C and PET X323C, or ZOO X733C and PCB X703C, or APK X100C and APK X105C, or BSC X085/X085L and BSC X086/X086L, or BSC X085C and BSCX086C

Dietetics

1. BSC X085/X085L and BSC X086/X086L, or BSC X085C and BSC X086C, or BSC X093C and BSC X094C, or HSC X549 or PCB X702 or PET X322/X322L
2. CGS X060 or CGS X061
3. CHM X200C or CHM X200/X200L, or CHM X210/X210L and CHM X211/X211L
4. CHM X045/X045L and CHM X046/X046L, or CHM X032
5. ECO X013 or ECO X023 or ECO X000
6. HUN X201
7. MAC X105 or MAC X142
8. MCB X004/X004L or MCB X020C or MCB X013C or MCB X020/X020L
9. PSY X012 or PSY X020 or PSY X113

Exercise Physiology

1. BSC X085/X085L or PET X322/X322L, or APK X100C and APK X100L, or BSC X093/X093L
2. BSC X086/X086L or PET X323/X323L or APK X105/X105L or BSC X094/X094L
3. PSY X012
4. BSC X010/X010L
5. BSC X011/X011L
6. CHM X045/X045L
7. CHM X046/X046L
8. HUN X201
9. MAC X147 or MAC X311, or MAC X140 and MAC X114

FOR ALL MAJORS: Students are strongly encouraged to select required lower division electives that will enhance their general education coursework and that will support their intended baccalaureate degree program. Students should consult with an academic advisor in their major degree area.

Core Program for All Majors

1. **Liberal Studies.** Required courses that may be taken in fulfillment of liberal studies include: English, basic nutrition, general chemistry, organic chemistry, general psychology, family relationships, mathematics, and statistics.
2. **Graduation Requirements.** See the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. For multicultural, HUN 2125 is recommended if the requirement is not satisfied with liberal studies. For computer skills, all majors require a similar course or certification (select BSC 2010L, if taken at FSU).
3. **College of Human Sciences Core.** The college core is to be met by taking FAD 2230 and a three credit hour course offered by the College of Human Sciences but outside of the students selected major.
4. **Core Courses.** CGS 2060 (or equivalent such as BSC 2010L if taken at FSU); HUN 1201; MAC 1105 or better; BSC 2085/2086 or PET 3322 and PET3322L (see specific major requirements); and STA 2122 or STA 2023.

Bachelor of Science

The Department of Nutrition, Food and Exercise Sciences offers four Bachelor of Science degrees: athletic training, dietetics, exercise physiology, and food and nutrition. To complete requirements for these degrees the following are required: (1) liberal studies requirements; (2) general graduation requirements for the University; (3) the preceding college core requirements; and (4) specific requirements for the chosen major. Additional courses may be required to complete the one hundred twenty semester hours required for the degrees. A minimum grade of "C–" is required unless otherwise indicated.

The following are the specific requirements for each major. Students must meet the curriculum requirements in effect at the time they enter the major.

Athletic Training

ATR 3512; BSC 2010 and BSC 2010L; CHM 1045 and CHM 1045L; ATR 2020; HUN 1201, FAD 2230, MAC 1105, MAC 1114, and MAC 1140; ATR 1800; PHY 2053C; PSY 2012; STA 2122. Upper division: HSC 4711 or PET 3361; ATR 3132, PET 3322/3322L, PET 3323C (or BSC 2085/2085L and BSC 2086/2086L), APK 3110C, ATR 3102, ATR 4302C, ATR 4932, ATR 3012C, ATR 3213C, ATR 3312C.

The Athletic Training Degree program allows students to choose from four sub-plan options: 1) Pre-Athletic Training, 2) Pre-Physician Assistant, 3) Pre-Physical Therapy, and 4) Pre-Sports Medicine. All students in the Athletic Training Degree program must complete the core curriculum courses plus the specific sub-plan course requirements.

1. Athletic Training Sub-Plan: APK 3113, ATR 1810, 2820, 3832, 4842; Electives: 14 hours
2. Pre-Physician Assistant Sub-Plan: CHM 1046/1046L, MCB 2004/MCB 2004L or MCB 4403/MCB 4403L, APK 2001 or CHM 3217; Electives: 6 hours

3. Pre-Physical Therapy Sub-Plan: BSC 2011/BSC 2011L, CHM 1046/CHM 1046L, PHY 2054C, Psychology: 3–6; Electives: 3–6 hours
4. Pre-Sports Medicine Sub-Plan: BSC 2011/BSC 2011L, CHM 1046/CHM 1046L, PHY 2054C, CHM 2210, CHM 2211/CHM 2211L, BCH 4053; Electives: 3–9 hours

Dietetics

See liberal studies requirements, college and department core, and common prerequisites. CHM 1045/1045L**, CHM 1046/1046L**, and CHM 3217**; BCH 3023C; DIE 3005, DIE 4243*, DIE 4244*/4244L*, and DIE 4310*; ECO 2XXX, FAD 2230 and FAD 4601; FOS 3026/3026L, FOS 4114C; FSS 4135 and FSS 4315*; HUN 1201*, HUN 2125, HUN 3224, HUN 3226, and HUN 3403*; HUN 4941, HUN 4905 (Professionalism and Ethics in Dietetics), MCB 2004/MCB 2004L**, PSY 2012, PET 3322/3322L (must be completed with a "C+"), PET 3361, STA 2122 and electives. All courses marked with an (*) must be completed with a "B" or better in order to earn a verification statement. A grade of "B" or better is suggested in courses marked with (**) to apply to the limited access program.

Exercise Physiology

Lower division: see liberal studies and college core, plus: BSC 2010*/2010L* and BSC 2011*/2011L*; CHM 1045*/1045L*, CHM 1046*/1046L*, CHM 2200*/2200L* or CHM 2210* or CHM 3217 and CHM 2211/2211L; HUN 1201; MAC 1105*, MAC 1114* and MAC 1140*, PHY 2053C and PHY 2054C; PSY 2012*; STA 2122*. Upper division: APK 3110C, BCH 3023C or BCH 4053/4053L and BCH 4054, or BCH 4624; FAD 2230; HUN 3224, HUN 3226; PET 3102, PET 3322/3322L, PET 3323C, and PET 4551; and three courses for a minimum of nine credit hours from the following list: APK 3113, HSC 4711; ATR 3102, PET 3361, PET 3932 (Special Topics: Exercise and Disease), HUN 3934, APK 3164, or PET 4076 and electives (to meet graduation requirements). Exercise science majors who plan on pursuing advanced degrees in physical therapy or medicine may need to take specified electives to meet admission requirements for these programs. HUN 1201 must be completed with a "B–" or better, PET 3322 and lab must be completed with a "C-." Courses marked with an (*) must be completed with a grade of "C" or better; a single repeat for only one of these courses is allowed.

Food and Nutrition Science

Lower division: see liberal studies, college core, plus: BSC 2010/2010L; CHM 1045/1045L, CHM 1046/1046L, CHM 2210, and CHM 2211/2211L; ECO 2013 or equivalent; FAD 2230; HUN 2125 and HUN 1201; MAC 1105, MAC 1114, MAC 1140, and MAC 2311; MCB 2004/2004L; PHY 2053C; PSY 2012; STA 2122 or STA 2023. Upper division: BCH 3023C; CHM 3120C; FOS 3026, FOS 3026L, FOS 4114C, and FOS 4209; HUN 3224, and HUN 3226; PET 3322 and PET 3322L; and electives to meet graduation requirements. At least ten additional semester hours must be at the 3000–4000 level for a total of forty hours at the 3000–4000 level. HUN 1201 must be completed with a "B–" or better, PET 3322/3322L must be completed with a "C-" or better.

Honors in the Major

The Department of Nutrition, Food and Exercise Sciences offers a program in honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. Students complete a senior thesis, which usually involves six semester hours, and present an honors seminar. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Master's and Doctoral Degrees

The Department of Nutrition, Food and Exercise Sciences offers work leading to the Master of Science in Food and Nutrition, the Master of Science in Exercise Physiology, the Doctor of Philosophy in Human Sciences, and the Doctor of Philosophy in Exercise Physiology. Consult the *Graduate Bulletin* for details.

Definition of Prefixes

APK—Applied Kinesiology
ATR—Athletic Training
DIE—Dietetics
FOS—Food Science
FSS—Food Service System
HSC—Health Sciences
HUN—Human Nutrition
PET—Physical Education Theory

Undergraduate Courses

APK 2001. Medical and Scientific Terminology (3). Prerequisite: PET 3322 or BSC 2085. This course is the study of medical and scientific terminology, the language of medicine that focuses on prefixes, suffixes, word roots and their combining forms by review of each body system and specialty area. Emphasis is on word construction, usage, comprehension, pronunciation, and spelling. In addition, students gain information regarding anatomy and physiology, pathology, diagnostic/surgical procedures, pharmacology, scientific equipment and instruments, and abbreviations.

APK 3113. Methodology of Strength and Conditioning (3). Corequisite: ATR 1810. This course covers topics involving the development of speed, strength, power, and endurance, and explores specific methods of strength and conditioning.

APK 3164. Eating Disorders and Body Image (3). Prerequisite: HUN 1201. This course presents current science based information on the prevention, contributing factors, characteristics and treatment of eating disorders, dieting and body image. Diverse populations with eating disorders, cultural and societal emphasis on thinness, and the role of the media are addressed.

ATR 1800. Introduction to Athletic Training (1). (S/U grade only.) Prerequisite: 2.5 GPA. This course offers an introduction to the educational and professional requirements necessary to become a Certified Athletic Trainer. Students are exposed to the daily operations of athletics training facilities and the job responsibilities of all members of a sports-medicine team. This course provides the framework for the formal application process for the Athletic Training Education Program.

ATR 1810. Athletic Training Clinical I (1). (S/U grade only.) Prerequisite: ATR 1800. This course offers a study of the cognitive, affective, and motor skills required to perform athletic-training techniques in practice settings. The techniques employed in this course reflect those presented in the lecture and laboratory course taken the previous semester.

ATR 2020. First Aid (2). This course includes adult CPR, child CPR, and first aid. In addition, OSHA recommendations, blood borne pathogen precautions, and injuries are discussed. Successful completion allows students to earn American Red Cross certification as a professional rescuer.

ATR 2820. Athletic Training Clinical II (1). (S/U grade only.) Prerequisite: ATR 1810. This course offers a study of the cognitive, affective, and motor skills required to perform athletic-training techniques in practice settings. Techniques reflect those presented in the lecture and laboratory courses taken the previous semester.

ATR 3132. Kinesiology (3). Prerequisite: PET 3322. This course introduces basic physical concepts as they apply to human movement. Emphasis is placed upon structural anatomy, neuromuscular physiology, and biomedical principles as they apply to sport skills, injury assessments, fitness activities, and rehabilitative exercises.

DIE 3005. Introduction to Dietetics (1). (S/U grade only.) This course is an introduction to dietetics, the professional opportunities for registered dietitians, the importance of public policy, and the role of the American Dietetic Association in dietetics education and practice.

HUN 1201. The Science of Nutrition (3). This course focuses on the elements of nutrition and factors influencing the ability of individuals to maintain good nutrition status.

HUN 2125. Food and Society (3). This course examines the impact of society on human food ways; role of food and nutrition in national development and global politics. For nonmajors.

HUN 3403. Life Cycle Nutrition (3). Prerequisite: HUN 1201. This course examines nutrition during pregnancy, lactation, and growth from infancy to the elderly. Effects of nutrition on mother and child. Interrelationships of diet, nutrition, emotional development, behavior, stress, and aging.

PET 1081. Living Learning Center Colloquium (1). This course explores different aspects of the transition to college life. The emphasis is on topics related to wellness, and activities address the health and development of individuals, families, and communities. The course is limited to the College of Human Sciences Reynolds Hall students.

PET 3102. Introduction to Exercise Sciences (1). (S/U grade only.) This course introduces students to fields of study and careers in areas of exercise physiology, motor behavior, athletic training, health and fitness, and physical therapy. Students will examine preparation for careers, including the role of various accrediting organizations. Current professional issues will be discussed. This course is open to non-majors.

PET 3322. Functional Anatomy and Physiology I (3). Prerequisites: HUN 1201 and CHM 1045. Corequisite: PET 3322L. The first part of a two-semester sequence, this course covers the functional anatomy and physiology of the skeletal, muscular, cardiovascular, respiratory, digestive, urinary, and endocrine systems, as well as part of the nervous system.

PET 3322L. Functional Anatomy and Physiology Laboratory I (1). Prerequisites: HUN 1201 and CHM 1045. Corequisite: PET 3322. The first part of a two-semester sequence, this lab covers the functional anatomy and physiology of the skeletal, muscular, cardiovascular, respiratory, digestive, urinary, and endocrine systems, as well as part of the nervous system.

PET 3323C. Functional Anatomy and Physiology II (4). Prerequisite: PET 3322. This course is a continuation of a two-semester sequence of functional anatomy and physiology that includes the integumentary, nervous, lymphatic, immune, and reproductive systems.

Advanced Undergraduate Courses

APK 3110C. Applied Exercise Physiology (4). Prerequisite: PET 3322. This course studies the nature of muscular, metabolic, cardiovascular, and respiratory adjustment to acute and chronic exercise.

ATR 3012C. Orthopedic Assessment–Upper Extremity (3). Prerequisite: ATR 2820. In this course, athletic training students examine the following topics included in this course: clinical orthopedic anatomy; evaluation; and assessment and special test protocols for the shoulder, elbow, forearm, wrist, hand, finger, eye, face, nose, throat, mouth, teeth, cervical spine, head, and neck.

ATR 3102. Athletic Training I (3). Prerequisite: ATR 1800. This course covers basic topics and issues pertaining to athletic training as established by the National Athletic Trainers' Association. Treatment and rehabilitation of athletic injuries will be introduced.

ATR 3112. First Responder (3). Prerequisite: Instructor permission. This course allows students to develop basic emergency medical skills and knowledge that enables them to assist people who sustain an accidental injury or who suffer a sudden illness. This course covers all the information from the United States Department of Transportation (DOT) First Responder National Standard Curriculum.

ATR 3213C. Orthopedic Assessment–Lower Extremity (3). Prerequisite: ATR 3832. In this course, athletic training students examine the following topics: clinical orthopedic anatomy; evaluation; and assessment and special test protocols for the foot, toes, ankle, knee, pelvis, thigh, thoracic and lumbar spine, and gait analysis.

ATR 3312C. Therapeutic Exercise/Rehabilitation (3). Prerequisite: ATR 3832. In this course, athletic training students examine various exercise and rehabilitation topics including the following: concepts of healing; evaluation and assessment techniques; range of motion and flexibility; goniometric measurement; manual therapy techniques; muscle strengthening; plyometrics; proprioception; posture; ambulation and ambulation aids; core stabilization; aqua therapy; joint rehabilitation protocols; and spine rehabilitation protocols.

ATR 3512. Administration of Athletic Training Programs (3). Prerequisite: ATR 4842. This course explores the aspects of athletic training organization and administration. Topics include program management, human resource management, athletic insurance, risk management, ethical considerations, pre-participation physical exams, and facility design.

ART 3802. First Responder Practicum (1). (S/U grade only.) Prerequisite: ATR 3112. This course is designed to emphasize patient assessment and care procedures at the first-responder level. The skills learned in the didactic First Responder course are refined with actual patient encounters by assisting crew members of the First Responder Unit.

ATR 3832. Athletic Training Clinical III (1). (S/U grade only.) Prerequisite: ATR 2820. This course offers a study of the cognitive, affective, and motor skills required to perform athletic-training techniques in practice settings. Techniques reflect those presented in the lecture and laboratory courses taken the previous semester.

ATR 3942r. Sports Medicine Practicum (0–6). Prerequisite: ATR 1800. This course is designed for athletic training students to investigate and research athletic training special topics through individual study and seminars. Enrollment is allowed by permission of the athletic training curriculum coordinator.

ATR 4302C. Therapeutic Modalities (3). Prerequisite: ATR 1800. This course trains students in common modalities employed by sports medicine. Where applicable, modalities of treatment will examine biophysical principles, effects of treatment, application techniques, and indications and contraindications to treatment. Safety is emphasized during instruction and practical experience.

ATR 4502. Athletic Training Professional Development (3). (S/U grade only.) Prerequisite: ATR 4852. This course covers the cognitive, affective, and motor skills required to perform athletic-training techniques in practice, non-traditional settings. Techniques reflect those presented in previous athletic-training administration lecture/lab courses. This course prepares students for the Board of Certification (BOC) examination and provides information on how the BOC examination is developed and scored.

ATR 4503. Athletic Training II (3). Prerequisite: ATR 3102. This course covers advanced topics pertaining to athletic training.

ATR 4842. Athletic Training Clinical IV (1). (S/U grade only.) Prerequisite: ATR 3832. This course offers a study of the cognitive, affective, and motor skills required to perform athletic-training techniques in practice settings. Techniques reflect those presented in the lecture and laboratory courses taken the previous semester.

ATR 4852. Athletic Training Clinical V (1). (S/U grade only.) Prerequisite: ART 4842. This course covers the cognitive, affective, and motor skills required to perform athletic-training techniques in practice settings. Techniques reflect those presented in previous the orthopedic assessment/lower and the therapeutic exercise/rehabilitation lecture/lab courses.

ATR 4862. Athletic Training Clinical VI (1). Corequisite: ATR 4932. This course is designed as a capstone for advanced-level students who intend to enter the profession of athletic training. Students are evaluated on cognitive, affective, and motor skills - all required to perform athletic training techniques in practice settings. Additional content includes oral, practical, and written examinations; professional-development activities; and a research project. All students enrolled in this course must show proof of current membership in the National Athletic Trainers' Association (NATA).

ATR 4932. Issues in Sports Medicine (3). Prerequisite: ATR 1810. This course addresses advanced issues relevant to athletic training and sports medicine. Current topics include athletic training administration, athletic training pharmacology, advanced assessment techniques, orthopedic surgical observation, and general medical conditions.

ATR 4947. General Medical Issues Clinical (1). Prerequisite: ATR 4932. This course allows athletic training students to observe practitioners in the allied and affiliate site settings, including medical doctors, nurse practitioners, pharmacists, chiropractors, off-campus certified athletic trainers, and others in the sports medicine setting.

DIE 4243. Medical Nutrition Therapy I (3). Prerequisites: HUN 1201, HUN 3403, PET 3322, PET 3322L. This course presents how diet, nutrition, and functional foods, can help promote health, control weight, and manage chronic diseases. This course includes guidelines for client assessment, nutritional diagnosis, intervention, education, monitoring and evaluation.

DIE 4244. Medical Nutrition Therapy II (3). Prerequisites: HUN 1201, HUN 3403, PET 3322, PET 3322L and DIE 4243. Corequisites: DIE 4244L and HUN 3226. Part two of a two part sequence, this course covers the pathophysiology of diseases and nutrition therapy in the treatment and prevention of acute disease states and includes guidelines for client assessment, nutritional diagnosis, intervention, education, and monitoring.

DIE 4244L. Medical Nutrition Therapy II Laboratory (1). Prerequisites: BCH 3023C, BSC 2085, DIE 4243, HUN 3224, PET 3322, and PET 3322L. Corequisites: DIE 4244 and HUN 3226. This laboratory covers the application of the principles of nutrition in the treatment and prevention of specific diseases.

DIE 4310. Community Nutrition (3). Prerequisites: HUN 1201 with a grade of "B–" or better and DIE 3005. This course explores the planning, implementation, and evaluation of nutrition programs in the community; public nutrition policy formulation.

FOS 3026. Foods (3). Prerequisites: HUN 1201 with a grade of "B–" or better and CHM 1032. This course is an introduction to the physiochemical properties of food and the relationship of these properties to preparation techniques and food quality. Management and service of food.

FOS 3026L. Foods Laboratory (1). Corequisite: FOS 3026. This course is an introduction to the physiochemical properties of food and the relationship of these properties to preparation techniques and food quality. Management and service of food.

FOS 4114C. Food Science (4). Prerequisites: CHM 2200C, FOS 3026, and FOS 3026L. This course discusses the chemistry of foods and their behavior during processing. Assessment of food quality.

FOS 4209. Food Safety and Quality (3). Prerequisites: HUN 1201 and FOS 3026 or departmental permission. In this course, topics include food spoilage and food poisoning, food-borne pathogens, food laws and regulations, HACCP, and safe food handler practices, with an emphasis on current issues related to the quality and safety of food.

FSS 4135. Institutional Food Economics (3). Prerequisites: DIE 3005, ECO 2000 or ECO 2013, FOS 3026, and FOS 3026L. This course discusses cost analysis, cost containment, organizational structure, food laws, and food and beverage procurement in health care settings.

FSS 4312. Food Service Management (3). Prerequisites: DIE 3005, FOS 3026, FOS 3026L, and HUN 1201. This course focuses on managerial concepts and administration concerns involved with institutional food production.

HSC 4711. Wellness/Health Risk Reduction (3). In this course the emphasis is on positive lifestyle practices to reduce one's risk for disease and for the maintenance of health and vitality. Topics include health behavior, stress, psychological health, chronic diseases, sexually transmitted infections, immunology, and psychoactive substance use and abuse.

HUN 3224. Intermediary Metabolism of Nutrients I (3). Prerequisites: CHM 2200C and HUN 1201 with a grade of "B–" or better. This course is part of a two-semester sequence emphasizing the physiochemical role of carbohydrates, lipids, and proteins in metabolic pathways; their integration and regulation; bases for determining requirements for energy-yielding nutrients and energy and dietary standards; cell growth and body composition.

HUN 3226. Intermediary Metabolism of Nutrients II (3). Prerequisites: HUN 1201 with a grade of "B–" or better; BCH 3023C or HUN 3224; and BSC 2086 or PET 3322. This course is part of a two-semester sequence that emphasizes the physiochemical role of vitamins, minerals, and water in metabolic pathways; their integration and regulation; bases for determining requirements for vitamins, minerals, and water and dietary standards; nutrition surveys and evaluation of nutrition status.

HUN 3934r. Special Topics in Food and Nutrition (3–6). Prerequisite: HUN 1201 with a grade of "B–" or better. This course focuses on topics in community nutrition, food science and technology, developmental and metabolic aspects of nutrition. May be repeated to a maximum of six semester hours as content changes.

HUN 4362r. Functional Foods and Human Health (3). Prerequisite: HUN 1201. This course focuses on what makes a food or a food product functional, chemistry, bioavailability, and health benefits of various functional foods.

HUN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of six semester hours.

HUN 4913r. Honors Thesis (3–6). May be repeated to a maximum of six semester hours.

HUN 4914r. Tutorial in Nutrition (1). (S/U grade only.) This tutorial consists of small group discussions or project work. Topics selected in contemporary issues or current research. Maximum enrollment of ten students per tutorial. May be repeated when topics change to a maximum of four semester hours.

HUN 4931. Honors Seminar (1).

HUN 4941r. Nutrition Practicum (1–4). (S/U grade only.) Prerequisites: HEE 4054 and a 2.5 GPA. This practicum consists of supervised field experience with a selected government or nongovernment agency at the local or state level. May be repeated to a maximum of four semester hours.

PET 3361. Nutrition and Sports (3). Prerequisites: HUN 1201 with a grade of "B–" or better and PET 3322. This course studies the effects of sports training upon individual nutrient stores and requirements and the effects of nutrient intake upon sports performance.

PET 3932r. Special Topics in Wellness and Exercise Science (3–6). This course discusses topics in wellness, health promotion, exercise physiology, biomechanics, and motor behavior. Consult instructor. May be repeated as content changes to a maximum of six semester hours. May be repeated within the same semester.

PET 4076. Physical Dimensions of Aging (4). This course deals with the quality of life and individual differences as we age; physical decline of physiological systems (cardiovascular, muscular, joints, bone, neuromuscular); health, exercise, and well-being; and the pathology of aging. Assists students in developing an understanding of the physical aspects of aging to apply to settings such as physical therapy, sports medicine, and health and fitness programs in hospitals and retirement communities.

PET 4551. Exercise Testing and Prescription (3). Prerequisite: APK 3110C. This course examines techniques of evaluation for physical fitness and health with a particular emphasis on aerobic capacity, flexibility, strength, and body composition and to design, implement, and administer programs for developing physical fitness and lifestyle changes.

PET 4948r. Practicum in Exercise Sciences (1–6). Prerequisites: A 2.75 GPA, ATR 2020 or equivalent, APK 3110C, and instructor permission. This course consists of supervised field experience in exercise physiology or motor control. May include research, athletic training, or community fitness projects. May be repeated to a maximum of six semester hours with permission of the instructor.

Graduate Courses

APK 5111C. Advanced Exercise Physiology (3).
APK 8945r. Exercise Physiology Internship (1–9). (S/U grade only.)
DIE 5248. Advanced Medical Nutrition Therapy (3).
DIE 5935. Current Topics in Dietetics (3). (S/U grade only.)
FOS 5205. Food Safety and Quality (3).
FOS 5424. Food Preservation (3).
FOS 5930r. Seminar in Food and Nutrition Science (1).
FOS 5936. Selected Topics in Food Science and Technology (3).
FOS 6351C. Physical and Chemical Techniques in Food and Nutrition (3).
FOS 6930r. Seminar in Food and Nutrition Science (1).
HSC 5603. Models of Health Behavior (3).
HUN 5242. Carbohydrates, Fats, and Proteins (3).
HUN 5243. Vitamins and Minerals (3).
HUN 5297. Eating Disorders, Body Image, and Healthy Weight Maintenance (3).
HUN 5802. Research Design and Methodology (2).
HUN 5802L. Research Design and Methodology Laboratory (1).
HUN 5906r. Directed Individual Study (1–9). (S/U grade only.)
HUN 5910r. Supervised Research (1–3). (S/U grade only.)
HUN 5930r. Food and Nutrition Seminar (1–4).
HUN 5938r. Special Topics in Nutrition (3).
HUN 6248r. Advances in Nutrition and Food Science (3–12).
HUN 6906r. Directed Individual Study (1–9). (S/U grade only.)
HUN 6911r. Supervised Research (3–5). (S/U grade only.)
HUN 6930r. Food and Nutrition Seminar (1).
HUN 6940r. Supervised Teaching (1–3). (S/U grade only.)
HUN 8945r. Supervised Field Experience (1–12). (S/U grade only.)
PET 5077. Physical Dimensions of Aging (4).
PET 5367. Nutrition and Exercise Performance (3).
PET 5389. Strength Program Development for Competitive Athletes and Sport (3).
PET 5412. Professional Practices for the Sports Scientist (3).
PET 5553. Cardiorespiratory and Anthropometric Evaluation and Development of Exercise Programs (3).
PET 5653. Cardiovascular Program Development for Competitive Athletes and Sport (3).
PET 5751. Sports Fitness Testing and Evaluation for Competitive Athletes and Sport (3).
PET 5930r. Seminar in Movement Sciences (1).
PET 5945r. Sports Sciences Practicum (3).
PET 6317. Skeletal Muscle Structure and Function (4).
PET 6365. Exercise and the Cardiorespiratory System (4).
PET 6368. Metabolic Responses to Exercise (3).
PET 6386. Environmental Aspects of Exercise (3).
PET 6387. Endocrinology in Health and Exercise (3).
PET 6388. Exercise and Disease (3).
PET 6930r. Seminar in Movement Sciences (1).
PET 6931r. Advanced Topics (1–4).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

ORGANISMAL BIOLOGY:
see Biological Science

Undergraduate Department of PHILOSOPHY

College of Arts and Sciences

Website: *http://philosophy.fsu.edu*

Chair: J. Piers Rawling; **Professors:** Bishop, Clarke, LeBar, Mele, Rawling, Schwenkler; **Associate Professors:** Hinchman, Justus, Kearns, May, Morales, Roberts, Stein, Westlund; **Assistant Professors:** Bukoski, Herdova; **Senior Teaching Faculty:** Mahaffey; **Assistant Teaching Faculty:** Vincent

The undergraduate program in philosophy is designed to enable students to gain an understanding of the substantive issues philosophers have struggled with through the ages. Students majoring in philosophy can expect to develop their abilities to engage in critical examination and evaluation. Such skills have proven to be of great value in almost any type of human endeavor. The program serves as a basis for professional training in other fields, such as law, education, politics, journalism, or theology, or as foundation for future professional training in philosophy. The department offers degree programs at all levels.

The department participates in the honors program, as well as the undergraduate programs in the following departments or programs: women's studies, humanities, Latin American and Caribbean studies, political science, international affairs, and religion. In addition, it offers more than ten courses in the University's Liberal Studies for the 21st Century Program.

Students have considerable latitude to design the content of a major that meets their needs and interests. For example, a student might focus primarily on ethics; on social and political philosophy; on logic and philosophy of science; on the history of philosophy or some distinct period such as ancient, modern, or contemporary; on epistemology; or on cognitive studies. Many students will find it possible to combine a major in philosophy with a major in another discipline. The department welcomes such arrangements.

The department's distinguished faculty is actively engaged in teaching, research, writing, publishing, and editing. Students majoring in philosophy can be assured that not only will they receive an excellent education in the history of philosophy but they will also have the opportunity to acquaint themselves with the latest developments in the discipline. The journal *Social Theory and Practice* is edited and published by the department.

The department offers regular colloquia in which local faculty, graduate students, and guests from other universities present papers and lead discussions on philosophical topics. In addition, the department regularly sponsors conferences; topics have included biomedical ethics, moral education, philosophy of language, color, Wittgenstein, Plato, Aristotle, Kant, ethical theory, history and philosophy of science in science teaching, human rights, virtue and social diversity, Kantian themes in ethics, and philosophy of biology. Werkmeister conferences on a variety of topics are held annually.

In addition to more formal academic settings, the undergraduate philosophy club offers opportunities for majors and prospective majors to meet and discuss readings or movies of philosophical interest.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in philosophy satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

State of Florida Common Program Prerequisites

No statewide common program prerequisites have been identified for this program; however, the faculty in this program recommends that students take several lower level courses with the PHH, PHI, PHM, or PHP prefix.

Requirements for a Major in Philosophy

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Note: The required courses listed below may not be offered every semester. Students should check with the department at least two semesters before graduation to make sure they will have the opportunity to complete the requirements.

Thirty semester hours in philosophy are required for the major, including the following:

1. **Logic (three semester hours). One of:**
   - **PHI 2100** Reasoning and Critical Thinking (3)
   - **IDS 3358** Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3)
2. **History of Philosophy (six semester hours)**

   Ancient Philosophy—one of:
   - **PHH 3130** Plato and His Predecessors (3)
   - **PHH 3140** Aristotle to Augustine (3)

   AND

   Modern Philosophy:
   - **PHH 3400** Modern Philosophy (3)
3. **Ethics (three semester hours)**
   - **PHI 3670** Ethical Theory (3)
4. **Contemporary Metaphysics and Epistemology (three semester hours) One of:**
   - **PHH 4600r** Contemporary Philosophy (3)
   - **PHI 3220** Introduction to Philosophy of Language (3)
   - **PHI 3300** Knowledge and Belief (3)
   - **PHI 3320** Philosophy of Mind (3)
   - **PHI 3330** Free Will (3)
   - **PHI 4500** Metaphysics (3)
5. **Seminar for Majors, to be taken in the senior year (three semester hours)**
   - **PHI 4938r** Seminar for Majors (3)

Additional requirements: At least twenty-one semester hours in the major must be at the 3000 level or above; at least fifteen semester hours must be completed in the Philosophy Department at Florida State University; and completion of a minor.

Grades below "C–" will not be accepted for major or minor credit, nor will courses taken for "S/U" credit.

Requirements for a Minor in Philosophy

Twelve semester hours in philosophy are required for the minor, including:

1. **Logic (three semester hours). One of:**
   - **PHI 2100** Reasoning and Critical Thinking (3)
   - **IDS 3358** Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3)
2. **History (three semester hours). One of:**
   - **PHH 3061** Medieval and Renaissance Philosophy (3)
   - **PHH 3130** Plato and His Predecessors (3)
   - **PHH 3140** Aristotle to Augustine (3)
   - **PHH 3400** Modern Philosophy (3)
   - **PHH 3500** Nineteenth-Century Philosophy (3)

At least six semester hours must be at the 3000 level or above. Students must receive a letter grade of "C–" or better in all courses that count toward the minor.

Minor in Political Philosophy

Twelve semester hours in philosophy are required for the minor, including:

1. **Logic (three semester hours). One of:**
   - **PHI 2100** Reasoning and Critical Thinking (3)
   - **IDS 3358** Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3)
2. **Nine semester hours from:**
   - **PHI 3162** Logic and the Law (3)
   - **PHM 2121** Philosophy of Race, Class and Gender (3)
   - **PHM 2300** Introduction to Political Philosophy (3)
   - **PHM 3123** Philosophy of Feminism (3)
   - **PHM 3331r** Modern Political Thought (3)
   - **PHM 3351** Philosophy of Human Rights (3)
   - **PHM 3400** Philosophy of Law (3)
   - **PHM 4340r** Contemporary Political Thought (3)
   - **PHP 3510** Introduction to Marxist Philosophy (3)

At least six semester hours must be at the 3000 level or above. Students must receive a letter grade of "C–" or better in all courses that count toward the minor.

Minor in Law and Philosophy

Twelve semester hours in philosophy are required for the minor, including:

1. **A required course:**

PHM 3400 Philosophy of Law (3)

2. **Logic (three semester hours). One of:**
   - **PHI 2100** Reasoning and Critical Thinking (3)
   - **IDS 3358** Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3)
   - **PHI 3162** Logic and the Law (3)
3. **Six semester hours from:**
   - **PHI 2620** Environmental Ethics (3)
   - **PHI 2635** Bioethics (3)
   - **PHI 3670** Ethical Theory (3)
   - **PHM 3351** Philosophy of Human Rights (3)

At least six semester hours must be at the 3000 level or above. Students must receive a letter grade of "C–" or better in all courses that count toward the minor.

Honors in the Major

Honors work in the major is offered to encourage talented juniors and seniors to undertake independent and original research. Successful completion of honors work results in honors credits and graduation with distinction. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

IDS—Interdisciplinary Studies
PHH—Philosophy, History of
PHI—Philosophy
PHM—Philosophy of Man and Society
PHP—Philosophers and Schools

Undergraduate Courses

IDS 2113. Know Thyself: A Philosophical Investigation of Self-Knowledge (3). This course is a philosophical investigation into the nature and importance of self-knowledge. It emphasizes close, critical reading of classic and contemporary philosophical texts, together with excerpts from literary works that explore related themes. The course introduces students to some important philosophical concepts and methods of philosophical analysis, and emphasize how philosophical inquiry can be relevant to everyday life.

IDS 2316. World Without God? (3). This course examines three main questions: (1) Can we explain the existence of our earth, and the universe as a whole, without recourse to God? (2) Can there be an objective moral code that we all have good reason to follow even if there is no God? (3) Can we have a spiritual or religious attitude to the world in the absence of belief in God?

IDS 2454. Fantasy Girls: Philosophical Examinations of Women and Girls in Fantasy and Science Fiction (3). This course provides a critical philosophical examination of representations of girls and women in fantasy and science fiction. Throughout the semester, students make use of traditional philosophical texts as well as non-traditional materials, such as film, literature, television, and comics to examine questions of women's nature, girlhood, beauty, violence, oppression, and sexual agency.

IDS 2456. Who is Human? Culture, Gender and Human Rights (3). This course examines the assumptions underlying arguments about culture, gender and human rights. In particular, students explore, compare, and evaluate fundamental issues in philosophy of human rights.

IDS 2462. Human Nature: Modern and Contemporary Perspectives (3). This course explores and evaluates accounts of human nature that historically influential philosophers have given to the question of human nature and the ways in which their answers are reflected in contemporary debates about what we are.

IDS 2611. Classical Philosophy of India (3). This course engages with the Classical Period in Indian Philosophy through discussion and evaluation of the main claims and arguments of philosophical activity in India to see what students find plausible and what they do not, and to argue for their own responses.

IDS 2675. Philosophy and Film (3). This course uses movies as a vehicle for discussing philosophical issues, such as, the nature of existence, the problem of knowledge, the existence of God, and the rules for proper conduct.

IDS 3179. Ethics Through Art (3). This course is a philosophical investigation into the relationship between ethics and art. We will focus on the following questions: Can art contain ethical content in a way that furthers the philosophical investigation of ethics? Can some works of art help us develop ethical awareness? Does all art by its nature have ethical content, or can art be amoral?

IDS 3320. Human Nature: The War Within (3). This course explores questions about what it means to be human from an interdisciplinary and historical perspective.

IDS 3358. Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3). This course is an examination of the fundamentals of modern symbolic logic (propositional and predicate calculi), with special attention to: (a) symbolizing arguments and evaluating them using both the rules of a system of natural deduction, and semantic method; and (b) explaining the canons of good reasoning, critiquing weak arguments, and developing stronger ones.

IDS 3364. Yesses and Noes: The Ethics of Consent (3). This course provides a critical philosophical examination of consent and the role of consent in everyday life. In the first half of the course, students examine theoretical perspectives on the nature and moral force of consent. In the second half of the course, students examine issues of consent in a broad range of applied contexts.

PHI 2010. Introduction to Philosophy (3). This course introduces some of the central problems in philosophy. Students also learn how to construct and criticize arguments and develop their own philosophical positions.

PHI 2016. Philosophy Through Film (3). This course is an introduction to a broad range of philosophical topics using film as a vehicle for discussion. Philosophical topics may include issues in Ethics, Philosophy of Mind, Metaphysics, Epistemology, Philosophy of Religion, and/or Political Philosophy. A variety of films are used to raise important philosophical questions and to help in understanding primary philosophical texts that seek to answer these questions.

PHI 2100. Reasoning and Critical Thinking (3). This course is designed to provide students with an understanding of the logical foundation of arguments and decisions. The course emphasizes acquisition of the skills necessary to construct clear, persuasive arguments. Students practice using reasoning to support conclusions and decisions. Students also evaluate reasons, data, arguments and conclusions presented in a variety of everyday circumstances.

PHI 2620. Environmental Ethics (3). This course focuses on philosophical issues raised by environmental problems and the sciences designed to resolve them. The course also analyzes the historical development of environmental perspectives and the ethical theories that have been generated by these approaches.

PHI 2630. Ethical Issues and Life Choices (3). This course draws on ethical theories to explore the major ethical issues that one faces as one makes decisions about the kinds of activities to engage in and the kind of life to lead. Issues such as those involving life and death (e.g., abortion, euthanasia, animal rights) and social justice (e.g. discrimination, responsibility to future generations) are examined.

PHI 2635. Bioethics (3). This course is an examination of the philosophical foundations of bioethical theory and an exploration of the trenchant issues in contemporary bioethics with a concentration on discussions of race, gender, and vulnerable populations (e.g. the poor, immigrants). The course employs tools of ethical theory, philosophical analysis, and analytic writing to examine a number of moral issues arising in health care including justice in health care, experimentation and research on human subjects, reproductive technology, aging, organ donation, and euthanasia. Throughout the course we examine assumptions about rights, persons, and ethical principles at work in medical decisions.

PHI 3130. Introduction to Symbolic Logic (3). This course examines the fundamentals of modern symbolic logic (propositional and predicate calculi), with special attention to the evaluation of symbolized arguments using the techniques of natural deduction. Topics include validity, soundness, proof, symbolization, truth-tables, truth-trees, and truth-functional and quantificational inference.

PHI 3220. Introduction to Philosophy of Language (3). This course explores major philosophical contributions to the understanding of language and its functions in communication. Discussion of the concepts of meaning, truth, reference, understanding, and interpretation. Readings include classics of 20th century philosophy.

PHI 3300. Knowledge and Belief (3). This course critically analyzes contemporary theories about the fundamentals of human knowledge: what ought to count as knowledge; how we get it; the roles of certainty, doubt, and skepticism; and the means by which we might maximize it.

PHI 3320. Philosophy of Mind (3). This course analyzes the central issues in the philosophy of mind. Topics may include: the mind-body problem, the unity of the mind, the nature of consciousness, artificial intelligence, and free will.

PHI 3330. Free Will (3). This course covers a number of different philosophical positions on free will and moral responsibility, and some of the arguments for and against these positions.

PHI 3331. Philosophy of Action (3). The philosophy of action lies at the intersection of the philosophy of mind, metaphysics, and ethics. Questions examined in this course include the following: How are intentional human actions to be explained? What is t to do something intentionally? How should we analyze or understand such concepts as intention, desire, and reason for action and related concepts featured in ordinary explanations of intentional actions? What is motivation, and how are actions motivated? What is it to act freely, or of one's own free will? Under what conditions are we morally responsible for what we do?

PHI 3400. History and Philosophy of Science (3). This course provides a close look at some of the crucial philosophical problems of the sciences as they have developed throughout history, from Aristotle through Galileo, Pasteur, and Einstein, including what methods count as scientific, along with a consideration of how science has changed the world and the role of values.

PHI 3452. Philosophy of Biology (3). This course introduces the major debates in philosophy of biology, including those surrounding the extended evolutionary synthesis, laws of evolution, units of selection, adaptationism, specification, etc. This course brings together the biological sciences and the tools of analytic philosophy to better understand some of the theoretical problems in biology.

PHI 3641. Business Ethics (3). This course consists of an identification and a discussion of defensible solutions for moral and ethical problems as they arise in the conduct of business and economic transactions. International business settings and the ethical problems arising from the need to design products and services that appeal to diverse national and world populations are considered.

PHI 3670. Ethical Theory (3). This course studies the nature of morality and moral reasoning through critical analyses of the writings of classical and contemporary ethical theorists directed to answering the questions, "What is good?" and "What ought I to do?"

PHI 3700. Philosophy of Religion (3). This course is an analysis of major issues in philosophy of religion. Topics may include the rationality of religious belief, faith, religious experience, religious language, evil, and the relation between religion and morality. Also offered by the Department of Religion.

PHI 3800. Philosophy of the Arts (3). This course introduces students to central issues in philosophy of the arts and aesthetics. Topics may include the nature of beauty, the nature of art, realism in painting, interpretation in literature, the nature of dance, and expressiveness in music. Readings include both historical and contemporary sources.

PHI 3881. Philosophy of Music (3). This course is an introduction to the contemporary literature regarding the philosophy of music. Questions posed include: What is music? Does music express emotions? How is music to be evaluated? How does one "understand" music? Why can cross-cultural understanding of music be difficult? What constitutes an authentic performance?

PHI 3882. Philosophy in Literature (3). This course explores how metaphysical and moral ideas function within the structure of selected novels and plays.

PHI 3930r. Selected Topics (1–3). May be repeated to a maximum of nine semester hours.

PHI 4083. Research in Philosophy (3). Prerequisites: Philosophy major status, completion of at least two upper division philosophy courses, and instructor permission. This course provides students with the opportunity for an in-depth research experience. Students choose the topic and reading list for the research in consultation with the instructor.

PHI 4134. Modern Logic I (3). Prerequisite: PHI 3130 or equivalent or instructor permission. This course is an intermediate course in modern symbolic logic, with special attention to the semantic evaluation of symbolized arguments. Topics include schemata and interpretation, models, satisfiability, normal forms, expressive completeness, proof procedures, metalogical laws, and soundness and completeness theorems.

PHI 4137. Modern Logic II (3). Prerequisite: PHI 4134. This course is an advanced course in modern symbolic logic. Topics discussed include the compactness theorem, the logic of identity, names and descriptions, second-order logic, type theory, the ancestral, the Frege-Russell definition of natural number, and Gödel's incompleteness results.

PHI 4500. Metaphysics (3). This course takes critical consideration of recent philosophical work from a variety of points of view on the question of what exists; for example: matter, mind, time, space, universal properties, causes, and essences.

PHI 4905r. Directed Individual Study (1–3). May be repeated to a maximum of six semester hours.

PHI 4912r. Honors Work (3). May be repeated to a maximum of twelve semester hours.

PHI 4930r. Philosophical Problems (3). This course examines selected philosophical problems from an advanced point of view. May be repeated to a maximum of nine semester hours.

PHI 4938r. Seminar for Majors (3). This course is a variable-content seminar for majors to do in-depth work in selected philosophical topics/areas and to practice writing a substantive philosophical paper.

PHI 4999r. Tutorial in Philosophy (1–3). This course consists of critical readings and discussions of important classical and contemporary philosophical texts. Variable content. Variable credit: one to two semester hours for a reading course; two to three semester hours for a reading course with substantial writing. May be repeated with instructor permission to a maximum of twelve semester hours.

History of Philosophy

PHH 3061. Medieval and Renaissance Philosophy (3). This course surveys Western philosophy from the third to the 16th century, beginning with the work of Christian, Jewish, and Arabic philosophers, and then turning to the rise of humanism, individualism, and science.

PHH 3130. Plato and His Predecessors (3). This course focuses on Ancient Greek philosophy from its beginnings to the work of one of its greatest practitioners. Questions posed include: What is there? What can I know about it? What should I do?

PHH 3140. Aristotle to Augustine (3). This course focuses on philosophy from the "Master of Those Who Knew" (Aristotle) through to the end of the ancient world and the dominance of Christianity. Topics include: the structure of the world order, God, man's place.

PHH 3400. Modern Philosophy (3). This course is a critical study of the theories of 17th- and 18th-century Western philosophers through a careful examination of representative texts from both the empiricist and rationalist traditions.

PHH 3500. 19th-Century Philosophy (3). This course explores diverse styles, ideas, and systems of such philosophers as Hegel, Kierkegaard, Schopenhauer, Marx, Mill, Bradley, and Nietzsche.

PHH 3700r. American Philosophy (3). This course examines major trends in American philosophy from Jonathan Edwards through 19th- and 20th-century American idealism and the pragmatic movement with emphasis on Peirce, James, and Dewey. May be repeated once with the permission of the instructor to a maximum of six semester hours.

PHH 4600r. Contemporary Philosophy (3). This course surveys the main recent philosophical movements through selected central representatives. Those considered may include Frege and his background, Russell and Moore, early Wittgenstein, logical positivists and their successors, Husserl and his phenomenology, Heidegger, Sartre, later Wittgenstein and his successors. May be repeated with instructor permission to a maximum of nine semester hours.

Social and Political Philosophy

PHI 3162. Logic and the Law (3). This course is an in-depth examination of the application of logic in a legal context with special emphasis on methods of inductive reasoning, such as analogical and casual reasoning. The course focuses on the construction and presentation of written arguments, and the evaluation of arguments from both historical and contemporary legal decision.

PHM 2121. Philosophy of Race, Class, and Gender (3). In this course, students study selected contemporary philosophical, literary, and journalistic discussions of questions regarding race, class, and gender with a particular emphasis on the status of these discussions in the United States. Students also survey theoretical accounts of the concepts of race, class and gender, as well as their interrelatedness, and examine their application to various contemporary social issues.

PHM 2300. Introduction to Political Philosophy (3). This course introduces students to the main issues in political philosophy: the justification of political authority, role of law, political obligation, neocolonialism, disobedience, revolution, rights, the appropriate ends of government, patterns of distribution and justice.

PHM 3020. Philosophy of Sex (3). This course is an examination of the contemporary philosophical debates about sex and sexual relationships. Topics include, but are not limited to how to define sex, the distinction between 'normal' and 'abnormal' sex, sexual exploitation and objectification, sexual consent, the relationship between sex and the meaning of life, and the nature of romantic love.

PHM 3123. Philosophy of Feminism (3). This course is a comprehensive survey of the most important schools of thought and issues in feminist philosophy, with emphasis on feminist politics and ethics. Liberal, socialist, Marxist, and radical feminism and their differing views about equality and subjection are discussed. Criticisms of now traditional theories from women of color and of "difference" theorists are analyzed. Also considered are problems of particular concern to feminists: the family, sexuality, occupational freedom, harassment, rape, pornography, and domestic violence.

PHM 3331r. Modern Political Thought (3). This course focuses on major political ideas of the modern world emphasized through a study of selected political theorists such as Machiavelli, Hobbes, Locke, Rousseau, Hume, Burke, Hegel, Marx, Engels, Bentham, Mill, Jefferson, Madison, Lenin, and Mussolini. May be repeated to a maximum of nine semester hours. Also offered by the Department of Political Science.

PHM 3351. Philosophy of Human Rights (3). This course is a survey of philosophical discussion of human rights and the moral and political questions arising from their violations. We examine the philosophical foundations for human rights claims, as well as women's human rights, political evil and mass atrocities. We analyze questions of justice and forgiveness in the context of social healing and democratization.

PHM 3400. Philosophy of Law (3). This course is a comprehensive survey of the most important schools of thought, traditional problems, and current issues in Anglo-American philosophy of law. Chief theories discussed are natural law, positivism, realism (including the law and economics movement), and critical legal studies (including race and gender theory). Also explored are different views about the interpretation of law and the role of the judiciary in American politics. Includes analysis of legal cases and consideration of issues such as justice, equality, liberty, privacy, and punishment.

PHM 4340r. Contemporary Political Thought (3). This course is an exploration of a set of issues, a trend, or a school of thought in contemporary political philosophy. May be repeated to a maximum of nine semester hours. Also offered by the Department of Political Science.

Philosophers and Schools

PHP 3510. Introduction to Marxist Philosophy (3). This course is a critical overview of the premises and theses of Marxism concerning the understanding of history, economic realities, political struggles, and ideologies as found in the principle works of its founders.

PHP 3786r. Existentialism (3). This course introduces students to existential philosophy through detailed and critical analysis of selected major works in the field with special attention to Heidegger and/or Sartre. May be repeated to a maximum of nine semester hours.

PHP 4930r. Studies in Major Philosophers (3). This course is a detailed study of a major philosopher (e.g., Plato, Aristotle, Kant, etc.) or school of philosophy (e.g., the Stoics, the Marxists). May be repeated to a maximum of nine semester hours.

Graduate Courses

PHH 5105r. Greek Philosophy (3).

PHH 5405r. Modern Philosophy (3).

PHH 5505r. 19th-Century Philosophy (3).

PHH 5609r. Contemporary Philosophy (3).
PHH 6009r. Studies in the History of Philosophy (3).
PHI 5135. Modern Logic I (3).
PHI 5136r. Modern Logic II (3).
PHI 5555. Core Course in Metaphysics and Epistemology (3).
PHI 5665. Core Course in Ethics (3).
PHI 5908r. Directed Individual Study (1–3). (S/U grade only.)
PHI 5913r. Supervised Research (1–5). (S/U grade only.)
PHI 5934r. Topics in Philosophy (3).
PHI 5945r. Supervised Teaching (1–5). (S/U grade only.)
PHI 5956. Introduction to Philosophical Methods (3).
PHI 5998r. Tutorial in Philosophy (1–3).
PHI 6205r. Philosophical Logic (3).
PHI 6225r. Philosophy of Language (3).
PHI 6306r. Epistemology (3).
PHI 6325r. Philosophy of Mind (3).
PHI 6406r. Philosophy of Science (3).
PHI 6425r. Philosophy of Social Sciences (3).
PHI 6455. Philosophy of Biology: Basic Topics (3).
PHI 6457r. Philosophy of Biology: Selected Topics (3).
PHI 6506r. Metaphysics (3).
PHI 6607r. Ethics (3).
PHI 6935r. Seminar in Philosophical Topics (3).
PHM 6205r. Social and Political Philosophy (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

PHILOSOPHY:
see also Religion

PHOTOGRAPHY:
see Art

Undergraduate Department of PHYSICS

College of Arts and Sciences

Website: *http://www.physics.fsu.edu/*

Chair: Paul Eugenio; **Associate Chair:** Nicholas Bonesteel; **Professors:** Adams, Blessing, Boebinger, Bonesteel, Cao, Capstick, Chiorescu, Cottle, Credé, Dobrosavljevic, Duke, Eugenio, Greene, Hill, Hoeflich, Manousakis, Piekarewicz, Prosper, Reina, Riley, Roberts, Tabor, Vafek, Van Winkle, Volya, Wahl, Wiedenhoever, Xiong, Yang; **Associate Professors:** Askew, Collins, Febres Cordero, Gao, Huffenberger, Lind, Ng, Okui; **Assistant Professors:** Almaraz-Calderon**,** Beekman, Changlani, Dobbs, Hsiao, Kolberg, Murphy, Ni, Spieker, Tobioka, Tripathi, Yohay; **Professors Emeriti:** Albright, Berg, Desloge, Fletcher, S. Hagopian, V. Hagopian, Kemper, Kimel, Owens, Philpott, Rikvold, Robson, Schlottmann, Skofronick, von Molnár

Florida State University's Department of Physics offers exciting programs and opportunities for students interested in learning physics. Our physics curriculum provides a solid foundation for future graduate work or immediate employment. There are many reasons students seek the challenges and rigors that come from making physics a part of their undergraduate studies. Those who choose physics find themselves in a field that both expands their abilities and provides them with an immense feeling of accomplishment. Perhaps the most important benefits gained from physics training are the confidence and the ability to tackle complex technical problems. As a result of this training, physicists are able to contribute in many professions.

Physics is the foundation of all sciences and has been the pursuit of some of the greatest minds in history, including Aristotle, Galileo, Newton, Maxwell, Einstein, and Dirac. Their discoveries and quest for knowledge form the foundation of our physics program. This proud tradition and passion for inquiry has produced a modern professional community of physicists whose contributions are continually expanding and changing our society. Whether it is on the end of a space-boom fixing the Hubble space telescope, creating and developing the World Wide Web, searching for the fundamental fabric of our universe, exploring safer and more reliable ways to diagnose and treat illnesses, or finding new and better ways to live, you will always find physicists on the frontier. So if you enjoy mathematics and science and are ready for a challenge, you should make physics a part of your education.

The internationally recognized faculty includes many who have earned prestigious awards for their research and teaching. The faculty believe that the quality of teaching, at all levels, is enhanced by a strong research program. Undergraduates, graduate students, and post-doctoral fellows participate in all aspects of research in physics at Florida State University. In fact, most undergraduate physics majors participate in research projects, and many are co-authors on publications. This research includes strong programs in computational physics and both experimental and theoretical studies in astrophysics and high energy, nuclear, condensed matter, and atomic and molecular physics. There are also many opportunities for interdisciplinary research, particularly at the National High Magnetic Field Laboratory (NHMFL) and the Institute of Molecular Biophysics (IMB).

Experimental facilities include: a 9.5 MV Super FN Tandem Van de Graaff accelerator with superconducting post accelerator; the RESOLUT radioactive beam facility; a state-of-the-art gamma spectrometer array; electron spin resonance and electron double nuclear resonance spectrometers; liquid helium refrigerators; thin film preparation facilities including sputtering and laser ablation; ultrahigh vacuum instrumentation including surface analysis (LEED, Auger, optical) and molecular beam epitaxy; synthesis and characterization facilities for novel materials; X-ray diffractometers with various sample stages for high and low temperature studies, multi-sample analysis and small angle studies; scanning electron, tunneling, and optical microscopes with image analysis; SQUID and vibrating sample magnetometers; and a helium atom surface scattering facility. The NHMFL provides a modern infrastructure enabling research in magnetic fields, including the highest-powered DC fields in the world, mainly used for materials science research, and facilities providing the highest fields in the world for nuclear, ion cyclotron, and electron magnetic resonance spectrometers as well as magnetic resonance imaging. Experimental work in high energy physics is done at the Fermi National Accelerator Laboratory in Illinois and at the CERN laboratory in Geneva, Switzerland.

Computers are an integral part of all research programs in the department. The computational infrastructure is upgraded continuously to keep pace with advances in technology. In addition to using computers in research, students are expected to utilize numerical methods for problem solving in their course work.

Programs Offered

The Department of Physics offers programs leading to the following degrees: Bachelor of Science (BS), Master of Science (MS), and Doctor of Philosophy (PhD). The department offers the following majors: Physics, Physics and Astrophysics, Physics and Materials, Physical Science, and Physical Science with FSU-Teach. The departmental course offerings include courses for non-science majors, for non-physical-science majors, for K–12 educators, and for physical science majors. Honors work is available. Details may be obtained from the chair of the department.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Physics, Physics and Astrophysics, and Physics and Materials satisfy this requirement by earning a grade of "C–" or higher in PHZ 4151C. Undergraduate majors in Physical Science and Physical Science/FSU-Teach satisfy this requirement by earning a grade of "C–" or higher in COP 3014, COP 3363, ISC 3313, or PHZ 4151C.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Physics, Physics and Astrophysics, Physics and Materials

1. CHM X045C, or CHM X040 and CHM X041, or CHM X045/X045L
2. CHM X046C or CHM X046/X046L
3. MAC X311 or MAC X281
4. MAC X312 or MAC X282
5. MAC X313 or MAC X283
6. PHY X048/X048L and PHY X049/X049L, or PHY X048C and PHY X049C

Physical Science

1. CHM X045/X045L, or CHM X040 and CHM X041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. MAC X311 or MAC X281
4. MAC X312 or MAC X282
5. MAC X313 or MAC X283
6. PHY X048C and PHY X049C, or PHY X048/X048L and PHY X049/X049L
7. MAC X312

   Note: MAC X312 is a prerequisite for PHY X049C

Physical Science/FSU-Teach

1. CHM X045/X045L, or CHM X040 and CHM X041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. MAC X311 or MAC X281
4. MAC X312 or MAC X282
5. MAC X313 or MAC X283
6. PHY X048C and PHY X049C, or PHY X048/X048L and PHY X049/X049L
7. MAC X312

   Note: MAC X312 is a prerequisite for PHY X049C
8. SMT X043
9. SMT X053

   Note: Transfer students will be able to take SMT X043 and SMT X053 when admitted to upper division.

Requirements

Note: The Physics and Physics & Astrophysics programs do not require any chemistry courses; transfer students will be admitted without having taken them. The Physics and Materials, Physical Science, and Physical Science/FSU-Teach programs require the chemistry courses listed in the Common Program Prerequisites; transfer students should have completed these courses.

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Outlines of undergraduate programs that will meet all departmental and University requirements are available at *http://www.academic-guide.fsu.edu*.

The University oral competency communication requirement is satisfied for Physics, Physics and Astrophysics, Physics and Materials, and Physical Science/FSU-Teach majors by taking PHY 3091, Communication in Physics. Physical Science majors may take any university course satisfying the University communication requirement. The University computer competency requirement is satisfied for Physics, Physics and Astrophysics, and Physics and Materials majors by taking PHZ 4151C; it is satisfied by Physical Science and Physical Science/FSU-Teach majors by taking COP 3014, COP 3363, ISC 3313, or PHZ 4151C.

Policy on Prerequisites

All prerequisite courses must be passed with a grade of "C–" or better.

Physics Major

A Physics major is required to take:

1. The following core courses: Discovering Physics (PHY 1090), General Physics A (PHY 2048C), General Physics B (PHY 2049C), Communication in Physics (PHY 3091), Intermediate Modern Physics (PHY 3101), Physics Problem Solving (PHY 3045), Mathematical Physics (PHZ 3113), Mechanics I (PHY 3221), Intermediate Laboratory (PHY 3802L), Electricity and Magnetism I (PHY 4323), Thermal and Statistical Physics (PHY 4513), Quantum Theory of Matter A (PHY 4604), and Advanced Laboratory (PHY 4822Lr).
2. At least four of the following courses: Introduction to Astrophysics (AST 4211), Optics (PHY 3424), Mechanics II (PHY 4222), Electricity and Magnetism II (PHY 4324), Quantum Theory of Matter B (PHY 4605), Phenomena in Condensed Matter Physics (PHZ 3400), Particle and Nuclear Physics (PHZ 4390), and Special and General Relativity (PHZ 4601).
3. The following computational course: Computational Physics Lab (PHZ 4151C).
4. The following mathematics classes: Calculus with Analytic Geometry I (MAC 2311), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry III (MAC 2313), and Ordinary Differential Equations (MAP 2302) or Engineering Mathematics I (MAP 3305).

Students who are planning to conduct graduate work in physics are strongly advised to include Quantum Theory of Matter B (PHY 4605), Mechanics II (PHY 4222), and Electricity and Magnetism II (PHY 4324) in their programs.

An Honors Thesis or Senior Thesis (minimum of 6 credit hours) may be substituted for the Advanced Lab (PHY 4822Lr).

No physics or math course with a grade below "C–" may be used to satisfy the above requirements. A student who has received more than two unsatisfactory grades (U, F, D–, D, D+) in courses required for the major, excluding the Term 1–4 State Common Prerequisites milestone courses, taken after enrolling at FSU, will not be permitted to graduate with this major. Required courses at this level consist of the following: MAP 2302/MAP 3305, PHY 1090, PHY 3045, PHY 3091, PHY 3101, PHY 3221, PHY 3802L, PHY 4323, PHY 4513, PHY 4604, PHY 4822L, PHZ 3113, PHZ 4151C.

The required mathematics courses for the Physics program constitute a minor in mathematics, but a student who so desires may take an additional approved minor.

In addition to satisfying the above requirements, students must satisfy the general requirements of both the College of Arts and Sciences and the University.

Physics and Astrophysics Major

A Physics and Astrophysics major is required to take:

1. The following core courses: Discovering Physics (PHY 1090), General Physics A (PHY 2048C), General Physics B (PHY 2049C), Communication in Physics (PHY 3091), Intermediate Modern Physics (PHY 3101), Physics Problem Solving (PHY 3045), Mathematical Physics (PHZ 3113), Mechanics I (PHY 3221), Electricity and

Magnetism I (PHY 4323), Thermal and Statistical Physics (PHY 4513), Quantum Theory of Matter A (PHY 4604), Astrophysics Laboratory (AST 3721L) or Intermediate Laboratory (PHY 3802L), Introduction to Astrophysics (AST 4211), and Extragalactic Astronomy (AST 4419) or Observational Techniques in Astrophysics (AST 4722).

2. At least three of the following courses: Physics of Stars (AST 4217), Cosmology and Structure Formation (AST 4414), Particle and Nuclear Physics (PHZ 4390), Special and General Relativity (PHZ 4601), and Nuclear Astrophysics (PHZ 4316).
3. The following computational course: Computational Physics Laboratory (PHZ 4151C).
4. The following mathematics classes: Calculus with Analytic Geometry I (MAC 2311), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry III (MAC 2313), and Ordinary Differential Equations (MAP 2302) or Engineering Mathematics I (MAP 3305).

Students who are planning to conduct graduate work in astrophysics are strongly advised to include Mechanics II (PHY 4222) and Quantum Theory of Matter B (PHY 4605) in their programs.

No physics or math course with a grade below "C–" may be used to satisfy the above requirements. A student who has received more than two unsatisfactory grades (U, F, D–, D, D+) in courses required for the major, excluding the Term 1–4 State Common Prerequisites milestone courses, taken after enrolling at FSU, will not be permitted to graduate with this major. Required courses at this level consist of the following: AST 3721L or PHY 3802L, AST 4211, AST 4419 or AST 4722, MAP 2302/MAP 3305, PHY 1090, PHY 3045, PHY 3091, PHY 3101, PHY 3221, PHY 4323, PHY 4513, PHY 4604, PHZ 3113, PHZ 4151C.

The required mathematics courses for the Physics and Astrophysics program constitute a minor in mathematics, but a student who so desires may take an additional approved minor.

In addition to satisfying the above requirements, students must satisfy the general requirements of both the College of Arts and Sciences and the University.

Physics and Materials Major

A Physics and Materials major is required to take:

1. The following core courses: Discovering Physics (PHY 1090), General Physics A (PHY 2048C), General Physics B (PHY 2049C), Communication in Physics (PHY 3091), Intermediate Modern Physics (PHY 3101), Physics Problem Solving (PHY 3045), Mechanics I (PHY 3221), Electricity and Magnetism I (PHY 4323), Thermal and Statistical Physics (PHY 4513), Quantum Theory of Matter A (PHY 4604), Mathematical Physics (PHZ 3113), Intermediate Laboratory (PHY 3802L), Advanced Laboratory (PHY 4822L), Condensed Matter Physics (PHZ 3400), Materials Characterization (PHZ 4470), and Materials Synthesis and Application (PHZ 4471).
2. The following computational course: Computational Physics Laboratory (PHZ 4151C).
3. The following mathematics classes: Calculus with Analytic Geometry I (MAC 2311), Calculus with Analytic Geometry II (MAC 2312), Calculus with Analytic Geometry III (MAC 2313), and Ordinary Differential Equations (MAP 2302) or Engineering Mathematics I (MAP 3305).
4. The following chemistry courses: General Chemistry I and Lab (CHM 1045/1045L) or Honors General Chemistry I and Lab (CHM 1050/1050L) and General Chemistry II and Lab (CHM 1046/1046L) or Honors General Chemistry II and Lab (CHM 1051/1051L)

Students are strongly advised to include Optics (PHZ 3424). Students who are planning to conduct graduate work in materials science are strongly advised to include Mechanics II (PHY 4222), Electricity and Magnetism II (PHY 4324), and Quantum Theory of Matter B (PHY 4605).

No physics, chemistry, or math course with a grade below "C–" may be used to satisfy the above requirements. A student who has received more than two unsatisfactory grades (U, F, D–, D, D+) in courses required for the major, excluding the Term 1–4 State Common Prerequisites milestone courses, taken after enrolling at FSU, will not be permitted to graduate with this major. Required courses at this level consist of the following: MAP 2302/MAP 3305, PHY 1090, PHY 3045, PHY 3091, PHY 3101, PHY 3221, PHY 3802L, PHY 4323, PHY 4513, PHY 4604, PHY 4822L, PHZ 3113, PHZ 3400, PHZ 4151C, PHZ 4470, PHZ 4471.

The required mathematics courses for the Physics and Materials program constitute a minor in mathematics, but a student who so desires may take an additional approved minor.

In addition to satisfying the above requirements, students must satisfy the general requirements of both the College of Arts and Sciences and the University.

Physical Science Major

The Physical Science program is designed to provide students with opportunities to explore the natural and technological worlds broadly, from the Earth and space sciences to modern physics to computer science and mathematics. A Physical Science major is required to take:

1. The following core courses: General Physics A (PHY 2048C), General Physics B (PHY 2049C), and Intermediate Modern Physics (PHY 3101).
2. One of the following sets of chemistry courses: General Chemistry I and Lab (CHM 1045/1045L) and General Chemistry II and Lab (CHM 1046/1046L) or Honors General Chemistry I and Lab (CHM 1050/1050L) and Honors General Chemistry II and Lab (CHM 1051/1051L).
3. One of the following computational courses: Programming I (COP 3014), Introduction to Programming in C++ for Majors (COP 3363), Computational Physics Lab (PHZ 4151C), or Introduction to Scientific Computing (ISC 3313).
4. The following mathematics courses: Calculus with Analytic Geometry I (MAC 2311), Calculus with Analytic Geometry II (MAC 2312), and Calculus with Analytic Geometry III (MAC 2313).
5. At least nine courses from the following list (at least twenty-seven credit hours): Ordinary Differential Equations (MAP 2302) or Engineering Math I (MAP 3305), Applied Linear Algebra I (MAS 3105), Introduction to Astrophysics (AST 4211), Physics Problem Solving (PHY 3045), Mechanics I (PHY 3221), Optics (PHY 3424), Intermediate Laboratory (PHY 3802L) or Astrophysics Laboratory (AST 3721L), Mathematical Physics (PHZ 3113), Condensed Matter Physics (PHZ 3400), Particle and Nuclear Physics (PHZ 4390), Survey of Organic Chemistry and Lab (CHM 2200 and 2200L) or Organic Chemistry I (CHM 2210), Introduction to Analytical Chemistry and Lab (CHM 3120 and 3120L), General Physical Chemistry (CHM 3400), Programming I (COP 3014, unless used to satisfy the computer skills requirement), Object Oriented Programming (COP 3330), Introduction to Unix (COP 3353), Physical Geology (GLY 2010C), Historical Geology and Lab (GLY 2100 and 2100L), Mineralogy and Crystallography (GLY 3200C), Physical Climatology (MET 2101), General Meteorology (MET 2700), Introduction to Atmospheric Dynamics (MET 3300).
6. Other upper-division courses in physics, chemistry, computer science, engineering, geology, meteorology, and mathematics may also be accepted. Please speak with a Physics advisor to see if particular courses satisfy this requirement. Courses required for a minor or an additional major will not be counted toward satisfying this requirement.

No physics, chemistry, computer science, engineering, geology, meteorology, or math course with a grade below "C–" may be used to satisfy the above requirements.

The required mathematics courses for the Physical Science program constitute a minor in mathematics, but a student who so desires may take an additional approved minor.

In addition to satisfying the above requirements, students must satisfy the general requirements of both the College of Arts and Sciences and the University.

Physical Science/FSU-Teach Major

Physical Science/FSU-Teach majors are required to declare a second major in Science Teaching and to take:

1. The following core courses: General Physics A (PHY 2048C), General Physics B (PHY 2049C), Intermediate Modern Physics (PHY 3101), Intermediate Laboratory (PHY 3802L) or Astrophysics Laboratory (AST 3721L), and Communication in Physics (PHY 3091).
2. One of the following sets of chemistry courses: General Chemistry I and Lab (CHM 1045/1045L) and General Chemistry II and Lab (CHM 1046/1046L) or Honors General Chemistry I and Lab (CHM 1050/1050L) and Honors General Chemistry II and Lab (CHM 1051/1051L).
3. One of the following computational courses: Programming I (COP 3014), Introduction to Programming in C++ for Majors (COP 3363), Computational Physics Lab (PHZ 4151C), or Introduction to Scientific Computing (ISC 3313).

4. The following mathematics courses: Calculus with Analytic Geometry I (MAC 2311) and Calculus with Analytic Geometry II (MAC 2312).
5. One Physics Learning Assistantship course (PHY 3012).
6. Research Methods (ISC 3523C).
7. Four of the following five physics courses: Physics Problem Solving (PHY 3045), Optics (PHY 3424), Phenomena in Condensed Matter Physics (PHZ 3400), Particle and Nuclear Physics (PHZ 4390), and Introduction to Astrophysics (AST 4211).

No physics, chemistry, computer science, or math course or ISC 3523C with a grade below "C–" may be used to satisfy the above requirements. A student who has received more than two unsatisfactory grades (U, F, D–, D, D+) in courses required for the major, excluding the Term 1–4 State Common Prerequisites milestone courses, taken after enrolling at FSU, will not be permitted to graduate with this major. Courses at this level consist of the following: PHY 3091, PHY 3101, PHY 3012, PHY 3802L, AST 4211, PHY 3045, PHY 3424, PHZ 3400, PHZ 4390.

Since the Physical Science/FSU-Teach program is considered to be a double major, a minor is not required. However, a student who so desires may take an approved minor.

In addition to the above requirements, students must satisfy the general requirements of both the College of Arts and Sciences and the University and the requirements for the Science Teaching major.

FSU-Teach Program in Teaching Physics

For those interested in teaching physics, FSU-Teach is an innovative approach to teacher education that involves a collaboration between scientists, mathematicians, and education faculty at Florida State University. In FSU-Teach, students will develop deep science or mathematics knowledge and the knowledge, skill, and experience needed to be an effective science or math teacher. The program will pay for tuition for the first two courses, and work-study positions with scientists, mathematicians, and local schools are available. For more information, see *http://FSU-Teach.fsu.edu*.

Minor

The required mathematics courses for the Physics, Physics and Astrophysics, Physics and Materials, and Physical Science programs constitute a minor in mathematics, but a student who so desires may take an additional approved minor. Since the Physical Science/FSU-Teach program is considered to be a double major, a minor is not required.

Minor in Physics

To obtain a minor in physics, a student is required to take General Physics A (PHY 2048C), General Physics B (PHY 2049C), and Intermediate Modern Physics (PHY 3101). Grades below "C–" will not be accepted for a minor.

Minor in Biomedical Physics

The Physics Department offers a minor in Biomedical Physics designed for students preparing for graduate studies in the biological sciences, for medical school, or for medical professions such as physical therapy. Students are required to take either General Physics A and B (PHY 2048C and PHY 2049C) or College Physics A and B (PHY 2053C and PHY 2054C), and Biomedical Physics I and II (PHZ 4702 and PHZ 4703). Grades below "C–" will not be accepted for a minor.

Minor in Astrophysics

To obtain a minor in astrophysics, a student is required to take General Physics A (PHY 2048C), General Physics B (PHY 2049C), and Introduction to Astrophysics (AST 4211). Grades below "C–" will not be accepted for a minor.

Honors in the Major

The Department of Physics offers a program in Honors in the Major to encourage talented juniors and seniors to undertake independent research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

AST—Astronomy
COP—Computer Programming
MAP—Mathematics Applied
PHY—Physics
PHZ—Physics: Continued
PSC—Physical Sciences

Undergraduate Courses

Courses for Non-Science Majors

AST 1002. Planets, Stars, and Galaxies (3). This course provides general acquaintance with some of the facts, concepts and scientific methods of astronomy. As a liberal study course, the goal is to help students learn some basic facts of astronomy as well as gain an appreciation of astronomy as a science, the universe, and the current scientific ideas about its history and its future.

AST 1002L. Planets, Stars, and Galaxies Laboratory (1). Corequisite: AST 1002. This course, which consists of outdoor and indoor labs, provides a hands-on introduction to astronomy as an observational science. In the outdoor labs students learn how to make observations and measurements of planetary, stellar and galactic objects using either your unaided eyes, binoculars or a telescope. The indoor labs acquaint them with the telescope, the coordinate system used to locate astronomical objects on the sky, the motion of objects in the sky and other basic concepts of astronomy.

PHY 1020. Physics and Technology for Future Presidents (3). This course is for non-science majors and contains the essential physics students need in order to understand today's core science and technology issues, and to become the next generation of world leaders. The course empowers students possessing any level of scientific background with the tools they need to make informed decisions and to argue their views persuasively with anyone, expert or otherwise.

PHY 1020L. Physics and Technology for Future Presidents Laboratory (1). Corequisite: PHY 1020. This course is designed to accompany the PHY 1020 lecture course. Although the lab material generally follows the lecture, some topics may be treated earlier or later in the lab syllabus.

Courses for Non-Physical-Science Majors

PHY 2053C. College Physics A (4). Prerequisites: MAC 1114 and MAC 1140 with grades of "C–" or better or suitable mathematics examination placement score. Corequisite: PHY 2053L. This course is the first semester of a two-semester sequence for life-sciences students and is intended to provide a general knowledge of the basic concepts of physics relating to mechanics, energy, gravity, rotational motion, fluids, heat, thermodynamics, vibrations and waves. Physics is based on problem solving and this class involves both solving word problems and performing laboratory exercises. The level of mathematical skill necessary to complete this course is a strong proficiency with algebra (especially word problems) and trigonometric functions; calculus is not used.

PHY 2053L. College Physics A Laboratory (0).

PHY 2054C. College Physics B (4). Prerequisite: PHY 2053C or PHY 2048C. Corequisite: PHY 2054L. This course is an introduction to electromagnetism, light, and modern physics for non-physical-science majors. Two lectures, one recitation, and one laboratory each week. Students who have previously received credit for PHY 2049C may not register for PHY 2054C.

PHY 2054L. College Physics B Laboratory (0).

PHZ 4702. Biomedical Physics I (3). Prerequisites: PHY 2053C and PHY 2054C or PHY 2048C and PHY 2049C. This course is the first in a series of two introductory courses on the applications of physics in biology and medicine. The course discusses applications of classical mechanics, hydrodynamics, and thermodynamics to motion, to the structure of the musculoskeletal, respiratory, and circulatory systems, as well as to the biology of the cell. The course is intended for students preparing for graduate studies in the biological sciences, for medical school, or for medical professions such as physical therapy and nursing.

PHZ 4703. Biomedical Physics II (3). Prerequisites: PHY 2053C and PHY 2054C or PHY 2048C and PHY 2049C. This course is the second in a series of two introductory courses on the applications of electricity, magnetism, optics, and modern physics to the nervous system, to vision, to modern topics in biomolecular research, as well as to microscopy and to modern biomedical imaging techniques. The course is intended for students preparing for graduate studies in the biological sciences, for medical school, or for medical professions such as physical therapy and nursing.

Physics for K–12 Educators

PSC 2801C. Physical Science for EC/EE Teachers (4). This course is designed for prospective elementary and early childhood education majors. The course combines physics and chemistry and the laboratory is integral to the course. Students work in groups in a hands-on, minds-on approach to learning physical science.

PHY 3012. Learning Assistantship in Physics (2). Prerequisites: PHY 2048C and PHY 2049C. Corequisite: PHY 3101. This course focuses on apprentice teaching in an inquiry-based physics learning environment under the direction of a faculty member. In addition, the course provides an examination of theoretical issues such as conceptual development, conceptual change, collaborative learning, technology in education, and students' conceptions of various topics in physics, as well as practical issues encountered in facilitating learning, managing the classroom, formative and summative assessment, and differentiating instruction in a collaborative environment.

General Physics for Physical-Science Majors

PHY 2048C. General Physics A (5). Prerequisite: MAC 2311. This course is designed to provide students with an understanding of how and why things move. Topics covered include kinematics, forces, energy, momentum, oscillations, and thermodynamics. The course is intended for physical science majors and engineers and to be taken as a sequence with General Physics B (PHY 2049C) and Intermediate Modern Physics (PHY 3101). Completing Modern Physics entitles students to a minor in physics. Calculus is used in this course.

PHY 2048L. General Physics A Laboratory (0).

PHY 2049C. General Physics B (5). Prerequisites: PHY 2048C and MAC 2312. Corequisite: PHY 2049L. General Physics B (PHY 2049C) is a calculus-based introduction to electricity and magnetism and optics for physical science majors.

PHY 2049L. General Physics B Laboratory (0).

Courses for Majors

AST 3721L. Astrophysics Laboratory (2). Prerequisite: PHY 3101. This course offers an introduction to experimental methodology, data analysis and interpretation, calibration techniques, scientific model validation, as well as data presentation and communication of results. The laboratory experiments have astrophysical relevance.

AST 4211. Introduction to Astrophysics (3). Prerequisites: MAC 2312 and PHY 2049C; science majors only. This introductory course covers key aspects and concepts of modern astronomy and astrophysics, including coordinate systems, instrumentation, our sun and planets, stars and stellar evolution, binary systems and variable stars, stellar explosions, as well as galaxies and the evolution of the universe.

AST 4217. The Physics of Stars (3). Prerequisites: PHY 3101 and PHY 3221. This course serves as an introduction to star formation, evolution, and death through simple theoretical modeling and through a strong emphasis on the underlying physics concepts.

AST 4341. Hydrodynamics and Plasma for Astrophysics (3). Prerequisites: PHY 3221 and PHZ 3113; or instructor permission. This course is an introduction to the hydrodynamics, plasma physics, and magneto-hydrodynamics (MHD) necessary for an understanding of astrophysical processes. No prior knowledge of hydrodynamics is required.

AST 4414. Cosmology and Structure Formation (3). Prerequisites: AST 4211 and PHY 3101. This course covers the evolution of the universe from the "Hot Big Bang" to the current epoch. Topics include cosmological expansion, the Hubble constant and other cosmological parameters, the microwave background radiation, early universe nucleosynthesis, the growth of large-scale structure, the "dark ages" and the re-ionization of the universe, the horizon and other fine-tuning problems, distance determinations, redshift surveys, inflation, cosmological acceleration, as well as dark matter and dark energy.

AST 4419. Extragalactic Astronomy (3). Prerequisite: AST 4211. This course offers a survey of the physics and phenomenology of galaxies and galaxy structures. Topics include stellar populations, classifications systems, interstellar and intergalactic material, chemical abundances and evolution, galaxy formation, structure, dynamics and evolution, extragalactic distance determination, interacting systems, as well as active galactic nuclei.

AST 4722. Observational Techniques in Astrophysics (3). Prerequisite: AST 4211. This course covers principles and techniques used in obtaining modern astronomical data. Includes an overview of current and next-generation astronomical instrumentation, discussion of calibration schemes and observing strategies, and an introduction to analysis techniques.

PHY 1090r. Discovering Physics (1). This course is an introduction to being and becoming a physicist. May be repeated to a maximum of two semester hours.

PHY 3045. Physics Problem Solving (3). Prerequisites: PHY 2048C and PHY 2049C. Corequisites: PHY 3101 and MAC 2313 and MAP 2302, or instructor permission. This course includes instruction and practice in solving advanced, calculus-based, multi-step problems in classical mechanics and E&M.

PHY 3091. Communication in Physics (2). Prerequisite: PHY 3045 and PHY 3101. This course consists of instruction and practice in oral communications for physicists. Students choose physics topics in consultation with instructor and present them to the class.

PHY 3101. Intermediate Modern Physics (3). Prerequisite: PHY 2049C. This course focuses on special relativity, quantum properties of light and matter, and origins of the universe.

PHY 3221. Mechanics I (3). Prerequisites: PHY 3045, PHY 3101, and MAP 2302. Corequisite: MAC 2313. This course focuses on Newtonian mechanics of a single particle, oscillations, nonlinear oscillations and chaos, gravitation, central force motion, systems of particles, and motion in noninertial reference frames.

PHY 3424. Optics (3). Prerequisite: PHY 2049C. This course focuses on topics such as: geometrical optics, wave optics, optical instrumentation, properties of light, lasers, fiber optics.

PHY 3802L. Intermediate Laboratory (2). Prerequisite: PHY 3101. This course focuses on experiments in optics, modern physics, and electricity and magnetism. The emphasis is on the development of experimental technique, assessment of the validity of experimental data, and the development of skill in the written presentation of results.

PHY 4222. Mechanics II (3). Prerequisites: PHY 3221, PHZ 3113, or instructor permission. This course focuses on Lagrangian dynamics, Hamiltonian dynamics, dynamics of rigid bodies, coupled oscillations, waves in one-dimensional continuous systems, and special relativity.

PHY 4323. Electricity and Magnetism I (3). Prerequisites: PHY 3221 and PHZ 3113. This course focuses on electric fields for static charge distributions, electric fields in matter, magnetic fields for constant current configurations, magnetic fields in matter, and Maxwell's equations.

PHY 4324. Electricity and Magnetism II (3). Prerequisite: PHY 4323. This course focuses on electromagnetic wave solutions to Maxwell's equations; reflection, transmission, dispersion, and absorption of electromagnetic waves; scalar and vector potentials; electromagnetic dipole radiation; electrodynamics; and relativity.

PHY 4513. Thermal and Statistical Physics (3). Prerequisites: MAC 2313, PHY 3221, and PHZ 3113. This course studies the fundamental laws of thermodynamics and their application to simple systems, the kinetic theory of an ideal gas, and is an introduction to the classical and quantum statistical mechanics of weakly interacting systems.

PHY 4604. Quantum Theory of Matter A (3). Prerequisites: PHY 3101, PHY 3221, and PHZ 3113. This course focuses on quantum mechanics and its applications to particles, nuclei, atoms, molecules, and condensed matter.

PHY 4605. Quantum Theory of Matter B (3). Prerequisite: PHY 4604. This course focuses on quantum mechanics and its applications to particles, nuclei, atoms, molecules, and condensed matter.

PHY 4822Lr. Advanced Laboratory (2). Prerequisite: PHY 3802L. This course consists of experiments in atomic physics, nuclear physics, and other areas of modern physics. Students are expected to work without detailed instructions. May be repeated to a maximum of six (6) credit hours for special projects arranged in advance between the student and the instructor.

PHZ 3113. Mathematical Physics (3). Prerequisites: PHY 3045 and PHY 3101. Corequisite: MAP 2302 or MAP 3305. This course focuses on: mathematical methods applied to physical systems; vectors, specialized techniques of integration, integral transforms, special functions, boundary-value problems, numerical methods.

PHZ 3400. Phenomena in Condensed Matter Physics (3). Prerequisite: PHY 3101. This course covers topics such as: crystal structures, phonons and thermal properties, electron energy bands, metals, semiconductors, superconductors, and magnetism.

PHZ 4151C. Computational Physics Laboratory (3). Prerequisites: MAP 2302 or MAP 3305, PHY 3221, and PHZ 3113. This course introduces students to the use of computers to solve computationally intensive problems, including basic instruction in physics problem solving using numerical solutions of differential equations, numerical integration, Monte Carlo methods, linear algebra, and symbolic algebra. Provides instruction in computational techniques and software development skills and practice in using network and software development tools including telnet, ftp, spreadsheets, databases, code management tools, and the World Wide Web.

PHZ 4316. Nuclear Astrophysics (3). Prerequisite: AST 4211. Corequisite: PHY 4604. This course offers an introduction to the role of nuclear reactions and decays in astrophysics. Topics cover the origin of elements in the context of Big Bang, major burning stages in the life of a star, stellar explosions, and processes in interstellar matter.

PHZ 4390. Particle and Nuclear Physics (3). Prerequisites: MAP 2302 or MAP 3305 and PHY 3101, or instructor permission. This course examines the properties of nuclei and particles, nuclear and particle decays, the Standard Model, and accelerator and detector techniques.

PHZ 4470. Materials Characterization (3). Prerequisites: MAC 2313, PHZ 3400, and PHZ 4471. This course is an introduction to a large variety of materials characterization techniques that have been developed and are currently used in materials science research.

PHZ 4471. Materials Synthesis and Applications (3). Prerequisites: MAC 2313, PHY 3101, and PHZ 3400. This course is an introduction to materials synthesis and materials applications.

PHZ 4601. Special and General Relativity (3). Prerequisite: PHY 3221. Corequisite: PHY 4323. This course examines the special theory of relativity, tensor analysis and curvature, general theory of relativity, experimental tests, black holes, gravitational radiation, and cosmology.

Research and Special Topics

AST 4218r. Astrophysics Seminar (1). Prerequisite: AST 4211. This seminar introduces students to current research topics in astronomy and astrophysics through presentation and discussion of recently published research papers, their own research work, and occasional review publications. Topics cover observational and theoretical astrophysics alike. May be repeated to a maximum of two semester hours.

PHY 1921r. WIMSE Colloquium (1). This course is a colloquium for the Women in Math, Science and Engineering Living-Learning Community. Students must be members of the WIMSE Living-Learning Community.

PHY 4905r. Directed Individual Study (1–3). A dedicated, academic study over the course of a semester of a specific topic performed under supervision of a member of the teaching or research faculty of the physics department. May be repeated to a maximum of eighteen semester hours.

PHY 4910r. Research Participation (1–3). This course consists of projects in theoretical or experimental physics arranged in advance between the student and a member of the teaching faculty of the physics department. May be repeated to a maximum of eighteen semester hours.

PHY 4936r. Special Topics in Physics (1–3). Prerequisite: Senior standing or instructor permission. This course consists of advanced applications of physics to topics of interest, such as relativity, astrophysics, particle physics, advanced solid state physics, or advanced nuclear physics. May be repeated to a maximum of twelve semester hours.

PHY 4937r. Undergraduate Tutorial in Physics (1–3). (S/U grade only.) Prerequisite: Upper-division undergraduate standing. This course consists of selected topics in modern physics. Examination of primary research literature. May be repeated to a maximum of fifteen semester hours. A maximum of eight students allowed in each tutorial.

PHY 4970r. Honors Work (1–6). May be repeated to a maximum of nine semester hours.

PHY 4975. Senior Thesis (1). Pre- or corequisite: PHY 4910. This course consists of a written report and an oral presentation discussing research work done under PHY 4910. The grade is assigned by a committee of three faculty members.

PHY 4990r. Senior Seminar (1). Prerequisite: PHY 3101. Corequisites: PHY 3091 and PHY 4910r. In this course, students present results of their physics research to the class for discussion. May be repeated to a maximum of two semester hours.

Graduate Courses

AST 5210. Introduction to Astrophysics (3).
AST 5219r. Astrophysics Seminar (3).
AST 5245. Radiative Processes in Astronomy (3).
AST 5342. Hydrodynamics and Plasma for Astrophysics (3).
AST 5416. Cosmology and Structure Formation (3).
AST 5418. Extragalactic Astronomy (3).
AST 5725. Observational Techniques in Astrophysics (3).
AST 5760. Computational Astrophysics (3).
AST 5765. Advanced Analysis Techniques in Astronomy (3).
PHY 5228. Mechanics II (3).
PHY 5246. Theoretical Dynamics (3).
PHY 5326. Electricity and Magnetism I (3).
PHY 5327. Electricity and Magnetism II (3).
PHY 5346. Electrodynamics A (3).
PHY 5347. Electrodynamics B (3).
PHY 5515. Thermal and Statistical Physics (3).
PHY 5524. Statistical Mechanics (3).
PHY 5607r. Quantum Theory of Matter A (3).
PHY 5608r. Quantum Theory of Matter B (3).
PHY 5645. Quantum Mechanics A (3).
PHY 5646. Quantum Mechanics B (3).
PHY 5657. Group Theory and Angular Momentum (3).
PHY 5667. Quantum Field Theory (3).
PHY 5669. Quantum Field Theory B (3).
PHY 5670. Quantum Many-Body Physics (3).
PHY 5904r. Directed Individual Study (3).
PHY 5909r. Directed Individual Study (1–12). (S/U grade only.)
PHY 5918r. Supervised Research (1–5). (S/U grade only.)
PHY 5920r. Colloquium (1). (S/U grade only.)
PHY 5930. Introductory Seminar on Research (1). (S/U grade only.)
PHY 5940r. Supervised Teaching (0–5). (S/U grade only.)
PHY 6937r. Selected Topics in Physics (1–3).
PHY 6938r. Special Topics in Physics (3). (S/U grade only.)
PHY 6941r. Graduate Tutorial in Physics (1–3). (S/U grade only.)
PHZ 5156C. Computational Physics Laboratory (3).
PHZ 5305. Nuclear Physics I (3).
PHZ 5307. Nuclear Physics II (3).
PHZ 5315. Nuclear Astrophysics (3).
PHZ 5354. High-Energy Physics I (3).
PHZ 5355. High-Energy Physics II (3).
PHZ 5475. Materials Characterization (3).
PHZ 5491. Condensed Matter Physics I (3).
PHZ 5492. Condensed Matter Physics II (3).
PHZ 5606. Special and General Relativity (3).
PHZ 5715. Biophysics I (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

PHYSIOLOGY:
see Biological Science

Undergraduate Department of POLITICAL SCIENCE

College of Social Sciences and Public Policy

Website: *https://coss.fsu.edu/polisci/*

Chair: Charles Barrilleaux; **Leroy Collins Eminent Scholar:** C. Weissert**; Leroy Collins Professor:** Barrilleaux; **Syde P. Deeb Eminent Scholar & Marian D. Irish Professor:** W. Berry; **Professors:** Crew, Jackson, Souva, W. Weissert; **Associate Professors:** Beazer, Coleman, Driscoll, Ehrlich, Gomez, Grosser, Kem, Rainey, Reenock; **Assistant Professors:** Ahler, Cunha, Duque, Hassell, Li, Ou, Pietryka, Whyman; **Assistant In:** Nagar; **Teaching Faculty:** Kile; **Affiliated Faculty:** F. Berry, Feiock, Landau, Metcalf; **Professors Emeriti:** Atkins, Dye, Flanagan, Glick, Gray, Kim, Palmer, Scholz

The political science major offers an undergraduate education in the liberal arts tradition, preparing the graduate for a variety of careers by emphasizing the acquisition of skills in communication and analysis and by encouraging independent thought, tolerance, and informed interest in current affairs. More specifically, the study of political science provides background for careers in government at the local, state, and national levels; in international organizations; political campaigns; interest groups and lobbying organizations; journalism; business; and the law.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in political science satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100, or through other mechanisms as detailed in the relevant section of this *General Bulletin.*

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Political Science & Government

1. POS X041
2. POS XXXX or INR XXXX or CPO XXXX

Requirements for a Major in Political Science

A political science major consists of thirty semester hours in political science with a grade of "C–" or better in each course, with the following restrictions:

- At least twenty-one semester hours in courses numbered 3000 and above
- At least twenty-one semester hours in an assembled classroom (as distinguished from individual credit for honors, directed studies, and internships)
- At least fifteen semester hours in an assembled classroom at Florida State University (may include courses taken through the study abroad program).

The political science program includes five subfields of study: American government (course prefix is POS), comparative politics (CPO), international relations (INR), public policy (PUP), and public administration (PAD). PAD courses are offered by the Askew School of Public Administration. ISS 2937 may count as a political science course if the instructor is a faculty member in political science.

Majors must take at least three introductory courses, including POS 1041 and two additional courses chosen from: CPO 2002, INR 2002, PUP 3002, and PAD 3003.

Note: CPO 2002, INR 2002, POS 1041, and PUP 3002 are prerequisites to most of the upper-level courses in their respective subfields.

Majors also must take at least six semester hours in any three subfields. The introductory courses listed above can be counted toward this subfield requirement. Only those courses listed under the subfield headings below can be used toward that subfield (i.e. courses listed under the "Others" section, though having a course prefix of POS, do not count towards the American Government subfield). Majors may verify whether selected courses will count toward major and subfield requirements with the department's Academic Coordinator.

Note: Courses offered by other departments, even if they have the same prefix as approved political science courses listed below, cannot be counted towards major or minor requirements in political science. Contact the department's Academic Coordinator if clarification is required.

POS 3713, Understanding Political Science Research, is required of all majors. This course should be taken as early as possible in the student's academic program, and no later than the first semester of junior year (prior to the completion of seventy-five credit hours).

A student who has been admitted to the Political Science major at FSU and received more than two (2) grades below "C-" (D+, D, D-, F, U) in political science courses will not be permitted to graduate with a degree in the major.

Political science majors are required to have a minor or second major and to meet the requirements stipulated by that department or program. Public administration is not permitted as a minor because classes in that area count toward the political science major.

Honors in the Major

The department offers a program of honors in the major to encourage qualified juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Internships

An optional internship in political science is designed to allow students to earn up to six semester hours of credit in political science while also garnering practical experience in government and politics. The prerequisites for internship are: completion of at least sixty semester hours; completion of fifteen semester hours in political science with a "C–" or better, including POS 3713; an overall grade point average of 3.0 or a GPA of 3.0 in political science courses; and permission from the department. Internship credits taken through the Askew School of Public Administration, International Affairs, or Interdisciplinary Social Sciences cannot be counted toward political science major or minor requirements.

For complete details, interested students should contact the department. The deadline to apply for internship credit through the department is the third day of classes of the semester a student will intern. The department does not award retroactive credit for completed internships under any circumstances.

Requirements for a Minor in Political Science

Students majoring in other departments or programs may minor in political science with fifteen semester hours of political science courses with grades of "C–" or better. A maximum of six semester hours of PAD and/or PHM prefixes combined may be counted toward the minor. At least nine semester hours must be at the 3000 level or above, and at least six of those must be earned at Florida State University.

Definition of Prefixes

CPO—Comparative Politics
IDS—Interdisciplinary Studies
INR—International Relations
PHM—Philosophy of Man and Society
POS—Political Science
POT—Political Theory
PUP—Public Policy

Undergraduate Courses

American Government

POS 1041. American Government: National (3). This course investigates how the national government is structured and how the American political system operates. Covers the philosophical and constitutional foundations of American government, the branches of the national government, the mechanisms by which citizens are connected to their government, and the policy outputs of government.

POS 3122. State Politics (3). Prerequisite: POS 1041 or instructor permission. This course focuses on government and politics in the American states. Looks at the governor, the legislature, and the courts; the history of federalism; and policies, practices, and social institutions that affect state government. Includes a study of state policies in such areas as welfare, education, crime, and the environment.

POS 3142. Urban Politics (3). Prerequisite: POS 1041 or instructor permission. This course examines the structure and operation of city governments and the political forces that drive decision making. Includes an examination of different forms of local government and the role of political parties, interest groups, and individuals. Examines the varying social and economic factors affecting U.S. cities.

POS 3182. Florida Government (3). Prerequisite: POS 1041 or instructor permission. This course covers the history and current organization of Florida government—the executive, legislative, and judicial branches. Considers such topics as the Florida Constitution, how Florida compares to other state governments, and the effects of interests outside state government.

POS 3204. Public Opinion and Electoral Behavior (3). Prerequisite: POS 1041 or instructor permission. This course explores political attitudes and behavior. It examines such topics as the sources of political knowledge; how political attitudes are formed and changed; how public opinion is measured; and why people vote the way they do.

POS 3258. Understanding Politics Through Film (3). This course explores how issues about politics and society, both historical and current, are expressed through the medium of film. The course focuses on some of the ideas about politics that have found their expression through cinema. These include the core idea dealt with by political theorists for centuries of whether people are fundamentally good or evil, the problem of race relations and the civil rights movement in American politics, political leadership, the strengths and weakness of the American constitutional system, political crisis and war and the war on terrorism.

POS 3263. Political Elites and Representation (3). Prerequisite: POS 1041 or instructor permission. This course considers the major areas related to representation in American government: how public officials are elected, the nature of their interactions with citizens, how policy is made at the national level, and the level of popular control.

POS 3443. Political Parties and Campaigning (3). Prerequisite: POS 1041 or instructor permission. This course describes, explains, and evaluates the structure, activities, and functions of political parties in the United States. Examines party organization and leadership, nominations and elections, the American electorate, and political campaigning.

POS 3691. Law and Society (3). Prerequisite: POS 1041 or instructor permission. This course surveys the American legal system, including the role of lawyers; sources and types of law; and courts, legislatures, executive agencies, and other law-making institutions. Also links law and legal behavior to the social, economic, and political features of modern society. (Required for students in the law and society program.)

POS 3931r. Special Topics in Government (3). Prerequisite: POS 1041 or instructor permission. Varies with the instructor and semester. May be repeated to a maximum of nine semester hours.

POS 4070. Race, Ethnicity, and Politics (3). Prerequisite: POS 1041 or instructor permission. This course examines how race and ethnicity are interwoven in American politics by viewing the role of African-American, Latino, and Asian-American voters, candidates, and public officials, and looking at the political attitudes of these groups.

POS 4206. Political Psychology (3). Prerequisite: POS 1041 or instructor permission. This course examines the psychological origins of citizens' political beliefs and actions, while providing an overview of the theories and methods used in the field of political psychology. Topics cover information processing, emotion, attribution, tolerance, stereotyping, prejudice, and political communication.

POS 4235. Media and Politics (3). Prerequisite: POS 1041 or instructor permission. This course examines the role of the news media, both print and electronic, in shaping public opinion and voter behavior.

POS 4275. Political Campaigns (3). Prerequisite: POS 1041 or instructor permission. This course examines the planning and administration of electoral campaigns for students interested in campaign participation as volunteers or professionals.

POS 4284. Courts, Law, and Politics (3). Prerequisite: POS 1041 or instructor permission. This course surveys the judicial system and its links to politics in the United States. Covers the U.S. Supreme Court, other federal courts, and state and local courts. Topics include legal education and law careers, role of lawyers in court, selection of judges, how civil and criminal cases get to and through the courts, plea bargaining, judicial decision-making, and court-made public policy.

POS 4413. The American Presidency (3). Prerequisite: POS 1041 or instructor permission. This course focuses on the evolution and power of the American presidency and the relations of the President with the branches of government. Also offered by the School of Public Administration and Policy.

POS 4424. Legislative Systems (3). Prerequisite: POS 1041 or instructor permission. This course studies Congress and the behavior of its members. Includes the recruitment and election of members of Congress, the functioning of party leaders and congressional committees, the influences on congressional policy-making, and the sources of stability and change in Congress.

POS 4606. The Supreme Court in American Politics (3). Prerequisite: POS 1041 or instructor permission. This course reviews the political role of the Supreme Court with particular attention to case law concerning judicial review, commerce power, federalism, and presidential and legislative power.

POS 4624. The Supreme Court, Civil Liberties, and Civil Rights (3). Prerequisite: POS 1041 or instructor permission. This course reviews recent interpretations of the Bill of Rights and 14th Amendment case law with special attention to freedom of expression, equal protection, and criminal due process rights.

Comparative Politics

CPO 2002. Introduction to Comparative Government and Politics (3). This course addresses government institutions and current political parties throughout the world, as well as theories that explain similarities and differences among countries. Topics may include electoral systems, parliamentary systems, causes of political change, democratization, political culture, ideologies, and economic and social policy. Examples are drawn from Western democracies and developing countries.

CPO 3034. Politics of Developing Areas (3). Prerequisite: CPO 2002 or instructor permission. This course examines how economic and social conditions affect politics and government in Africa, Asia, Latin America, and/or the Middle East. Typical topics include theories of economic development, cultural influences on politics, religious and ethnic conflict, changing roles of women in the developing world, foreign aid, causes and consequences of poverty, causes of revolution, environmental policies, military regimes, and corruption.

CPO 3055. Authoritarian Regimes (3). Prerequisite: CPO 2002 or instructor permission. This course examines various aspects of the politics of authoritarian regimes: political institutions in dictatorships, the relationship between dictatorship and economic development, the role of elections and electoral fraud, the impact of international election monitoring, public support for dictatorship, the impact of traditional and social media, censorship, the extent to which authoritarian regimes are accountable to the public, and power struggles among authoritarian elites.

CPO 3101. European Union (3). Prerequisite: CPO 2002 or instructor permission. This course covers the historical development, political institutions, and philosophical underpinnings of the European Union. Topics include federalism, different notions of sovereignty, contemporary decision-making in the EU, assessments of democratic institutions in Europe, and prominent points of debate, such as monetary union, trade policies, environmental policies, and enlargement policies.

CPO 3103. Comparative Government and Politics: Western Europe (3). Prerequisite: CPO 2002 or instructor permission. This course focuses on political behavior and institutions in Britain, Germany, France, and other European countries and transnational developments in Europe, such as the postindustrial society phenomenon, terrorism, Eurocommunism, and European federation.

CPO 3123. Comparative Government and Politics: Great Britain (3). Prerequisite: CPO 2002 or instructor permission. This course examines the political and governmental system of Great Britain within a comparative framework. Comparison and contrast with the United States emphasized.

CPO 3303. Politics of Latin America (3). Prerequisite: CPO 2002 or instructor consent. This course examines Latin American politics after the mid-20th century. Examines the historical, economic, and international contexts in which Latin American political systems function, and identifies challenges to democracy and development. The specific Latin American countries covered will vary.

CPO 3403. Comparative Government and Politics: The Middle East (3). Prerequisite: CPO 2002 or instructor permission. This course discusses the political systems of the Middle East and their social, economic, and cultural foundations.

CPO 3520. Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3). Prerequisite: CPO 2002 or instructor permission. This course is an introduction to politics in Korea, Taiwan, and Japan. Looks at 20th century political developments to better understand contemporary events in these countries. Deals with political issues such as electoral systems, party systems, "economic miracles," the process of democratization, the potential future role of these countries in world affairs, North Korean nuclear development, and unification of the Korean Peninsula.

CPO 3541. Politics of China (3). Prerequisite: CPO 2002 or instructor permission. This course is an introduction to the politics of the People's Republic of China, its political history and contemporary organization. Covers such topics as Chinese communism, the Cultural Revolution, the post-Mao era, the two Chinas, and popular movements and reform. Also examines current issues.

CPO 3553. Politics of Japan (3). Prerequisite: CPO 2002 or instructor permission. This course examines Japanese society and culture, political behavior, and political institutions since World War II. Emphasis is placed on political transformation since the early 1990s.

CPO 3615. Post-Soviet Politics (3). Prerequisite: CPO 2002 or instructor permission. This course examines developments in the so-called "transition countries" of Eastern Europe and Eurasia, drawing on readings to introduce students to the major debates on economic and political reform in the region.

CPO 3703. Comparative Democratic Institutions (3). Prerequisite: CPO 2002 or instructor permission. This course examines political institutions (including executive, legislative, and judicial, as well as electoral systems), and evaluates their importance and role in democratic societies.

CPO 3743. States and Markets (3). Prerequisite: CPO 2002 or instructor permission. This course analyzes the multifaceted ways in which political and economic spheres interrelate. Students are exposed to relevant debates on democracy and growth, the state's role in the economy, corruption, natural resources, and redistribution.

CPO 3930r. Special Topics in Comparative Government and Politics (3). Prerequisite: CPO 2002 or instructor permission. Topics vary with the instructor and semester. May be repeated to a maximum of nine semester hours.

CPO 4057. Political Violence (3). Prerequisite: CPO 2002 or instructor permission. This course introduces the student to scholarly writing on violent political conflict. Reviews theories of guerilla struggle and counter-insurgency, as well as the philosophy of non-violent direct action and several theories of conflict resolution. Course also explores the human costs of political violence.

CPO 4504. Institutional Approaches to Democracies and Dictatorships (3). Prerequisite: CPO 2002 or instructor permission. This course examines questions about democracy and dictatorship from an institutional perspective. What is democracy and how is it measured, and how does regime affect the welfare of citizens? An emphasis is on the variety of institutional arrangements found in dictatorships.

International Relations

INR 2002. Introduction to International Relations (3). This course introduces students to the study of international relations. Major topics include the different actors that participate in international relations and the different goals they pursue, the processes of conflict and cooperation, and recent trends in international politics.

INR 3004. Geography, History, and International Relations (3). Prerequisite: INR 2002 or instructor permission. This course introduces students to the impact of geography and history on international relations and considers the ways these forces influence national and international processes. Topics include the role of geography in international economics and trade, regional integration, geopolitics, territorial and resource disputes, and how decision-makers learn from history.

INR 3084. Terror and Politics (3). Prerequisite: INR 2002 or instructor permission. This course focuses on terrorist organizations and government responses to them.

INR 3502. International Organization (3). Prerequisite: INR 2002 or instructor permission. This course covers the role of global and regional international organizations in contemporary world politics. Special emphasis is placed on the United Nations system, including its structure, activities, influence, and role in world integration.

INR 3603. Theories of International Relations (3). Prerequisite: INR 2002 or instructor permission. This course provides a more detailed examination of the process of international relations than the introductory course. Topics include the major approaches to foreign policy decision making, prominent explanations of international conflict, and process of international economics.

INR 3933r. Special Topics in International Relations (3). Prerequisites: INR 2002 or instructor permission. Topics vary with the instructor and semester. May be repeated to a maximum of nine semester hours.

INR 4011. Political Responses to Economic Globalization (3). Prerequisite: INR 2002. This course examines economic globalization: what it is, who is harmed and helped by it, how countries and citizens respond to it, and what the future might hold. This course focuses heavily on economic issues but assumes no background in the subject.

INR 4075. International Human Rights (3). Prerequisite: INR 2002 or instructor permission. This course introduces the student to the philosophical and legal foundations of the international human rights regime and explores the developments of norms and institutions with special emphasis on the post-World War II era.

INR 4078. Confronting Human Rights Violations (3). Prerequisite: INR 2002 or instructor permission. This course investigates various means of confronting massive human rights violations. It compares the recent phenomena of truth commissions and pardons to the more traditional, legalistic approach of criminal prosecution. Moral issues involved in each approach and how each serves society are explored. Specific truth commission cases are studied.

INR 4083. International Conflict (3). Prerequisite: INR 2002 or instructor permission. This course examines historical patterns in warfare and considers the conditions that influence war and peace between nation-states. Topics include causes of war, outcomes and aftermath of war, and approaches to peace.

INR 4102. American Foreign Policy (3). Prerequisite: INR 2002 or instructor permission. This course focuses on the role of the U.S. President, State Department, Congress, Central Intelligence Agency, and Defense Department in making foreign policy. Examines the decision-making process and domestic sources of foreign policy, such as the electorate, public opinion, interest groups, and the media. Looks at the past and the future of American foreign policy with an emphasis on current issues.

INR 4124. Statecraft (3). Prerequisite: INR 2002. This course introduces students to the field of security studies. Provides an introduction to the competing visions of the place of the U.S. in the world, the theoretical arguments behind each approach, and how the various perspectives differ on central policy issues.

INR 4244. Studies in International Politics: Latin America (3). Prerequisite: INR 2002 or instructor permission. This course examines Latin America in the international political system, with emphasis on the United States and Latin America.

INR 4274. Studies in International Politics: The Middle East (3). Prerequisite: INR 2002 or instructor permission. This course discusses developments in the international politics of the Middle East and North Africa; historical background to Middle Eastern conflicts, wars, and crises with a focus on the Arab-Israeli conflict.

INR 4334. American Defense Policy (3). Prerequisite: INR 2002 or instructor permission. This course looks into the evolution and organization of American defense policy as well as an assessment of its current capabilities.

INR 4702. Political Economy of International Relations (3). Prerequisite: INR 2002 or instructor permission. This course examines the interaction between politics and economics in international relations. Topics covered include international trade, the global monetary system, multinational corporations, regional integration, and economic development.

Public Policy

PUP 3002. Introduction to Public Policy (3). This course is an introduction to the development of public policy in the United States. Covers main policy areas including housing, education, the economy, homeland security, etc.

PUP 4008. Public Policy Analysis (3). Prerequisite: PUP 3002. This course introduces students to the evaluation and analysis of public policy, using the political economy approach.

PUP 4024. Interest Groups, Social Movements, and Public Policy (3). Prerequisite: PUP 3002 or instructor permission. This course examines the varied effectiveness of interest groups and movements on public policy formation, with emphasis on resources, organizational structure, ideology, strategies, and tactics.

PUP 4034. Organizations and Public Policy (3). Prerequisite: PUP 3002. This course is concerned with the accountability and performance of bureaucracies and their implications for democracy, examining the role of organizations and bureaucracies in public policy, focusing on factors such as decision-making activities, rationality, motivation, and conflict within and among organizations.

PUP 4203. Environmental Politics and Policy (3). Prerequisite: PUP 3002 or instructor permission. This course focuses on the actions taken by government to protect and improve environmental quality in the United States. It includes such topics as the underlying scientific principles, the major actors in policy making, existing legislation, and future challenges. Background in science is not necessary.

PUP 4604. Health Services Organization and Policy (3). This course examines the development of health policy and its practice in American health organizations. Topics include costs, prices, and expenditures, insurance, programs (Medicare, Medicaid, SCHIP, and long-term care), and reforms in the American system.

PUP 4931r. Special Topics in Public Policy (3). Prerequisite: PUP 3002 or instructor permission. This course studies policy alternatives and the policy-making process on a specific contemporary policy question in America, e.g., science research and development, energy, regulation, taxes, environment. Varies with the instructor and semester. May be repeated to a maximum of nine semester hours.

Political Theory

PHM 3331r. Modern Political Thought (3). This course focuses on major political ideas of the modern world emphasized through a study of selected political theorists such as Machiavelli, Hobbes, Locke, Rousseau, Hume, Burke, Hegel, Marx, Engels, Bentham, Mill, Jefferson, Madison, Lenin, and Mussolini. May be repeated to a maximum of nine semester hours.

PHM 4340r. Contemporary Political Thought (3). This course is an exploration of a set of issues, a trend, or a school of thought in contemporary political philosophy. May be repeated to a maximum of nine semester hours.

Others

POS 3713. Understanding Political Science Research (3). Prerequisite: POS 1041 or CPO 2002 or INR 2002 or PUP 3002 or instructor permission. This course consists of doing political science as opposed to reading it. Includes introductory examinations of survey research, computer applications, data analysis, and philosophy of science. Required for all political science majors.

POS 3930r. Advanced Undergraduate Seminar (3). Prerequisite: At least twelve semester hours of political science or instructor permission. This course is a seminar on topics of major theoretical or policy relevance to political scientists. Opportunity for discussion and instructor interaction. Topic varies. May be repeated to a maximum of six semester hours.

POS 3949r. Experiential Learning (0). (S/U grade only.) Prerequisite: Instructor permission. This is a non-credit experiential learning course, which offers students an opportunity to gain "real world" on-the-job experience related to a specific academic field of study. Students must register for this course through the FSU Career Center.

POS 4715. Politics and the Theory of Games (3). Prerequisites: CPO 2002 or INR 2002 or POS 1041 and completion of the mathematics liberal studies requirements. This course discusses elementary theories of individual and group decision–making that are used to analyze various political phenomena such as the arms race, legislative politics, majority rule in democracies, voting and elections, and coalition governments.

POS 4905r. Directed Individual Study (1–3). Prerequisite: At least twelve semester hours of political science or instructor permission. This course involves some combination of research, reading, writing, field study, other scholarly activities, and evaluation. May be repeated to a maximum of twelve semester hours.

POS 4935r. Honors Work (1–6). When offered as a seminar, selected topics are used to develop outstanding scholarship; also offered for individual students engaged in senior honors thesis. Contact the department for details on prerequisites and requirements. May be repeated to a maximum of nine semester hours.

POS 4941r. Internship (1–6). Prerequisites: Completion of at least sixty semester hours, completion of fifteen semester hours in political science (including POS 3713) with a grade of "C–" or better, a 3.0 GPA average or a 3.0 GPA in political science courses, and departmental permission. For complete details interested students should contact the department.

IDS 2390. Public Opinion and American Democracy (3). In this course, students explore the factors that structure individual's attitudes towards politics and how the distribution of public opinion on major issues affects government. More specifically, the course has been designed to provide students with a critical examination of the psychology of political attitude formation, the opportunity to gather and analyze - both independently and as a group - data about citizens' political beliefs, and an empirical evaluation of government responsiveness toward citizens' demands.

IDS 2432. Political Participation in the 21st Century: From Indigenous Communities to On-line Democracy (3). This course centers around an ancient political question: how can we live together? In the 21st century new forms of participation are developing which should make us question the traditional political paradigms. The course addresses these problems by examining evidence from different contexts and by adopting a multidisciplinary approach.

Graduate Courses

Comparative Politics

CPO 5091. Core Seminar in Comparative Government and Politics (3).
CPO 5127. Seminar in Comparative Government and Politics: Great Britain (3).
CPO 5407. Seminar in Comparative Government and Politics: The Middle East (3).
CPO 5740. Comparative Political Economy (3).
CPO 5934r. Selected Topics (3).

International Relations

INR 5007. Seminar in International Relations: International Politics (3).
INR 5036. International Political Economy (3).
INR 5088. International Conflict (3).
INR 5507. International Organizations (3).
INR 5934r. Selected Topics (3).

American Government

POS 5036r. Seminar in American Government and Public Policy: Selected Topics (3).
POS 5045. Seminar in American Government and Public Policy: National Government (3).
POS 5127. State Government and Politics (3).
POS 5208r. Selected Topics in Political Behavior (3).
POS 5227. The Executive (3).
POS 5237. Seminar in American Government and Public Policy: Public Opinion (3).
POS 5277. Electoral Politics (3).
POS 5427. Legislative Politics (3).
POS 5698r. Selected Topics (3).

Methods of Political Analysis

POS 5723r. Game Theory (3).
POS 5727r. Advanced Game Theory (3).
POS 5736r. Research Design (3).
POS 5737r. Political Science Data Analysis (3).
POS 5744. Fundamentals of Political Research (3).
POS 5746r. Quantitative Analysis in Political Science (3).
POS 5747r. Advanced Quantitative Analysis in Political Science (3).

Public Policy

PUP 5005. Public Policy: Institutions and Processes (3).
PUP 5006. Policy Implementation and Evaluation (3).
PUP 5007. Models of Public Policy-Making (3).
PUP 5015. Comparative Public Policy (3).
PUP 5045. Applied Policy Analysis (3).
PUP 5607. Politics of Health Policy (3).
PUP 5932r. Selected Topics (3).

Other

POS 5909r. Directed Individual Study (1–3).
POS 5915. Political Science Research Practicum (3).
POS 5946r. Teaching Political Science at the College Level (3).
POS 6930r. Profession of Political Science (0–6). (S/U grade only.)

Applied American Politics and Policy

POS 5096. Political Fund-raising (3).
POS 5203. Fundamentals of Political Management (3).
POS 5274. The Campaign Process (3).
POS 5276. Political Communication and Message Development (3).
POS 5335. Political Research (3).
POS 5465. Lobbying (3).
POS 5945r. Professional Practicum/Internship (3–12).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Minor in POPULATION STUDIES

College of Social Sciences and Public Policy

Website: *http://popcenter.fsu.edu*
Director: Carl Schmertmann (Economics); **Professors:** Brewster, Burdette, Carlson, M. Taylor, J. Taylor, Tillman (Sociology) Schmertmann (Economics),; **Associate Professors:** Davis, Sanyal (Sociology); **Assistant Professors:** Felkner (Urban and Regional Planning), Hauer, McFarland, Waggoner (Sociology); **Professors Emeriti:** Eberstein, Nam, Sly

This multidisciplinary minor provides an overview of population studies, a field that is concerned with the size, composition, and distribution of human populations—globally, nationally, and locally—and with how and why these characteristics change. Populations change in response to fertility, mortality, and migration, but contemporary population research stretches the field beyond these three variables to encompass a broad range of related topics, including family structure, health, the environment, and socioeconomic development. Through the coursework for this minor, students will realize the impact of population variables and processes on nearly every issue of public concern, including population aging, rising health care costs, national security, the economy, and climate change. A minor in population studies will complement majors in the College of Social Sciences and Public Policy, but students in other majors, including Environmental Sciences and Policy, will find it useful as well.

Requirements

The minor in Population Studies consists of fifteen semester hours of coursework comprising nine hours of required coursework and six hours of electives.

Required core (three courses):

All students must take:

ECP	**3113**	Economics of Population
GEO	**1400**	Human Geography*
SYD	**3020**	Population and Society

Electives (two courses):

The remaining six credit hours may be selected from the following courses:

GEO	**3502**	Economic Geography
		OR
ECP	**3302**	Economics of Natural Resources, Energy, and the Environment
SYD	**3600**	Cities in Society
		OR
URS	**1006**	World Cities: Quality of Life*
		OR
GEO	**4602**	Urban Geography
		OR
ECP	**4613**	Urban Economics
SYP	**3730**	Aging and the Life Course
GEO	**1330**	Environmental Science*

*Course also may be counted toward student's Liberal Studies requirement.

All courses must be completed with a grade of "C–" or better. For more information, contact Dr. Carl Schmertmann, Director, Center for Demography and Population Health.

POPULATION:
see *Graduate Bulletin*

PORTUGUESE:
see Modern Languages and Linguistics

PRELAW EMPHASIS:
see Communication

PREPROFESSIONAL AREAS:
see College of Medicine

Undergraduate Program in PROFESSIONAL COMMUNICATION

College of Applied Studies

Web Page: *http://pc.fsu.edu/academics/undergraduate-programs/professional-communication*
Faculty: Lindsay; **Teaching Faculty II:** Wallace; **Teaching Faculty I:** Parker; **Visiting Faculty I:** Lawrence

Students in the Professional Communication program at the Panama City campus receive a broad understanding of fundamental communication processes. The overall program combines courses that are theoretically based with those that are professionally oriented. Courses include interviewing, persuasion, communication research methods, principles of advertising, introduction to public relations, communication for organizing and a communication internship. Students in professional communication may pursue careers in information and media, as well as prepare for graduate study. Representative job titles relating to this major include: information specialist, radio/TV executive, media manager, public opinion researcher, speech writer, online content manager, and many others.

The College of Applied Studies also offers programs of study leading to the terminal master's degree in Corporate and Public Communication. Consult the *Graduate Bulletin* or School Web site for information regarding graduate programs.

Note: Students not formally admitted to the professional communication degree program are prohibited from enrolling in more than eighteen semester hours of coursework in professional communication. SPC 1017 and SPC 2608 do not count toward this eighteen semester hour limit.

Admission Information

This is not a limited access program. Students transferring from another institution are strongly encouraged to earn an AA before matriculating at Florida State University, and should apply for admission to the College of Applied Studies **before** transferring to Florida State University. Students who transfer must have an overall GPA of 2.0 or higher on all college coursework considered for admission. Students may also enter the professional communication degree program as first time in college (FTIC) students. For more information, contact Cristina Doan, Academic Program Specialist at:*cdoan@fsu.edu* or *(850)770-2148*.

Requirements

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in professional communication satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or COM 4470.

Oral Communication Competency

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met through appropriate high school speech training or with an approved college-level course. COM 3110 (Communication for Business and the Professions), IDS 2491 (Communication Matters – Personal Responsibility in Public Speaking), SPC 2608 (Public Speaking), SPC 4620 (Strategic Speech Making), and SPC 4360 (Interviewing) will also satisfy this requirement.

Language Requirement

All students must meet the foreign language admission requirement. Students do not have an additional language requirement for the BS degree. The BA degree requires proficiency in a foreign language.

Required Minor

Professional Communication majors must fulfill minor requirements outside the Communication major. Students should check with the minor department for specific requirements. Minors must be approved by an advisor. A fifteen hour interdepartmental minor is also possible, providing that the coursework is outside the Communication major and approved in advance.

Major Program of Studies in Professional Communication: thirty-six hours

No grade below a "C–" will be accepted for any course in the major. Maintenance of a 2.0 cumulative GPA is required. The College of Applied Studies reserves the right to refuse admission or discontinue enrollment of any student at any time, if, in the judgment of the faculty, the student does not meet departmental or major standards.

Eight core courses (twenty-four hours):

ADV 3008 Principles of Advertising (3)
COM 3120 Communication for Organizing (3)
COM 3310 Communication Research Methods (3)
COM 4945r Communication Internship (3)
PUR 3000 Introduction to Public Relations (3)
PUR 3100 Writing for Public Relations (3)
SPC 4360 Interviewing (3)
SPC 4540 Persuasion (3)

Advanced courses (twelve hours):

Students select four courses from a list of approved courses.

If courses used to satisfy major requirements are used to meet the General Education requirements, no more than four semester hours of the General Education Requirements may also be counted towards the major requirements.

Combined Bachelor's/Master's Pathway

Students who are admitted into the combined bachelor's/master's pathway in professional communication may be permitted to dually count up to twelve credit hours of graduate communication coursework towards both the BS and the MS degrees. Interested students should consult their faculty advisor for more information about the combined pathway. More information about the professional communication BS/MS pathway can be found at *http://pc.fsu.edu/academics/undergraduate-programs/professional-communication*.

Definition of Prefixes

ADV—Advertising
COM—Communication
CRW—Creative Writing
IDS—Interdisciplinary Studies
MMC—Mass Media Communication
RTV—Radio: Television
SPC—Speech Communication

Undergraduate Courses

ADV 3001. Creative Strategy I (3). This foundation course in advertising explores creativity in a workshop environment.

ADV 3008. Principles of Advertising (3). This course explores advertising and promotion as related to level of economic growth, cultural influences, and sociolegal environments.

ADV 4800. Creative Strategy II (3). Prerequisites: ADV 3001, ADV 3008, and ADV 4500. This course fosters creative and empathetic skills necessary in communicating via print and electronic media and enables students to utilize these skills in creating integrated advertising campaigns.

COM 3120. Communication for Organizing (3). This course focuses on communication and group problem solving in bureaucracies.

COM 3310. Communication Research Methods (3). This course is an introduction to communication research methods. It examines survey, experimental, observational, and content analysis methods. Philosophy of science, research design, measurement, sampling, data collection, analysis, interpretation, and reporting.

COM 4132. Communication and Stress Management (3). This course examines the causes of and remedies for stress in the workplace. The course provides practical education in controlling stress that emphasizes primarily organizational, intrapersonal, and interpersonal communication skills and utilizes primarily written channels. The course is reading and writing intensive.

COM 4431. Rhetoric of a Global Corporation (3). This course provides opportunities to observe ways in which religious and musical rhetoric are employed by a major U.S. corporation with a global target market. The course emphasizes observation research that focuses primarily on communication theory and methods. The course requires that students spend forty-five documented hours performing lab/field work research and/or library research in the symbols and messages of an appropriate corporation.

COM 4470. Desktop Multimedia (3). This course provides overview of operations and applications of software packages; principles of design and presentation for print-based as well as audio-visual productions.

COM 4905r. Directed Individual Study (1–3). (S/U grade only.) In this course, students select a topic of interest to pursue under supervision of a faculty member. It could be research/creative, pedagogy, service, or applied. Results in a final project, scope and type to be defined by student and faculty supervisor. May be repeated to a maximum of nine semester hours.

COM 4941r. Application of Instructional Methods (0–3). (S/U grade only.) This course provides experience in methods and strategies of teaching communication concepts within the University context. Individually designed to accommodate student's background and objectives. May be repeated to a maximum of three semester hours; duplicate registration not allowed.

COM 4945r. Communication Internship (1–12). (S/U grade only.) This course is a supervised internship. The credit is proportional to scope and significance of work and may not be applied to graduate degrees. The course is individually designed to accommodate student's background and objectives. This course may be repeated to a maximum of twelve (12) semester hours.

CRW 3753. Writing Florida (3). This course builds on the fundamental elements of fiction writing and helps students gain an overview of, and cultivate their own, aesthetically unique style that informs their fiction. Through workshops and revisions, students complete three written works set in Florida, either novel chapters or short stories.

IDS 2292. Communication and Dance (3). This course focuses on three separate emphasis areas: (1) the individual; (2) partnerships, and; (3) groups and social settings. The communication concepts learned through dance in this course are also applied to other social situations and settings.

IDS 2677. Female Friendship Alliances in Shakespeare (3). Prerequisite: ENC 1101. This course aims to address how the question of female friendship alliances affect the psychological well-being of women. More importantly, how is this presented in Shakespeare's plays? Students analyze relationships between friendship groups and the psychology of women in the plays of William Shakespeare through the lens of various psychologists, literary historians, and actors and directors of Shakespeare plays through class discussions, writing assignments and oral presentations.

MMC 4300. Diffusion of Innovations (3). This course is an analysis of the process of change, particularly from the standpoint of how communication is used and introduced, spread, and adoption of new ideas, behaviors, and products within a society.

PUR 3000. Introduction to Public Relations (3). This course introduces the student to the principles and practices of the public relations profession throughout all organizations using public relations.

PUR 3100. Writing for Public Relations (3). Pre- or corequisite: PUR 3000. This course is designed to develop professional-level writing skills for public relations.

SPC 3231. Contemporary Rhetorical Theory (3). This course examines rhetorical theorists of the 20th century, including Burke, Richards, Foucault, Habermas, Fisher, and Weaver.

SPC 3301. Interpersonal Communication (3). This course is a survey of recent literature on interpersonal communication including such topics as self-concept, emotional behavior, interpersonal conflict, and interpersonal attraction.

SPC 3425. Communication in Small Groups (3). This course in small groups includes both cognitive and experiential elements. Students study how small groups function as they create their own project groups and learn by doing.

SPC 3513. Argumentation (3). This course focuses on the principles of argumentation theory and the practical applications of these principles in different argumentative situations. Traditional as well as contemporary approaches to the study of argument are combined with the settings of argument to provide a practical experience for each student.

SPC 4360. Interviewing (3). This course is an analysis of the interview process in a variety of specific contexts and the development of communication skills used in interviewing.

SPC 4445. Group Dynamics and Leadership (3). Prerequisite: SPC 3425. This course is a review of concepts and research in group process and group leadership.

SPC 4620. Strategic Speech Making (3). This course is designed to enhance the speech making abilities of students interested in a career where these skills are essential. Students are trained in selecting and organizing ideas; conducing Internet and library research; adapting a message to a particular audience; speaking to main points; supporting ideas; and delivering an effective messaging in a presentation are addressed in this course. This course is offered exclusively at the FSU Panama City Campus.

SPC 4710. Interracial/Intercultural Communication (3). This course is an exploration of interracial and intercultural communication and the philosophies that underlie the concept.

Graduate Courses

ADV 5503. Media Consumer Behavior (3).
COM 5126. Organizational Communication Theory and Practice (3).
COM 5127. Assessing Organizational Communication (3).
COM 5316. Statistical Methods in Communication Research (3).
COM 5409. Kenneth Burke and Communication Theory (3).
COM 5469. Communication Planning and Dispute Resolution (3).
COM 5526. Marketing Communication Management (3).
COM 5906r. Directed Individual Study (1–3). (S/U grade only.)
COM 5911r. Supervised Research (1–5). (S/U grade only.)

COM 5940r. Supervised Teaching (1–5). (S/U grade only.)
COM 5946r. Communication Residency (1–6). (S/U grade only.)
MMC 5600. Mass Communication Theory and Effects (3).
RTV 5423. New Communication Technology (3).
SPC 5545. Studies in Persuasion (3).
SPC 6236. Contemporary Rhetorical Theory and Criticism (3).
SPC 6920r. Colloquium in Speech Communication (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

PSYCHOBIOLOGY/NEUROSCIENCE:
see *Graduate Bulletin*

Undergraduate Department of PSYCHOLOGY

College of Arts and Sciences

Website: *http://www.psy.fsu.edu*

Chair: Frank Johnson; **Associate Chair:** Hardy; **Professors:** Boot, Charness, Compton, Contreras, Eckel, Ericsson, Hajcak, Hull, Hyson, F. Johnson, Joiner, Kaschak, Keel, Kelley, Kistner, Lonigan, Maner, McNulty, Patrick, Plant, Rinaman, Schatschneider, Schmidt, Spector, Taylor, Wagner, Wang; **Associate Professors:** Cougle, Ganley, Hart, Kofler, Li, Williams; **Assistant Professors:** Braithwaite, Conway, Dewan, Folstein, Franklin, Hammock, March, Meltzer, Meyer, Nee, Ribeiro, Wilber, Zhang; **Research Faculty:** Sachs-Ericsson; **Teaching Faculty:** Hansen, Hardy, Kemper, Koehler, O. Johnson, Kline, Murphy, Polick, Towne; **Affiliated Faculty:** Flynn, Phillips, Roehrig, Tenenbaum, Wetherby; **Adjunct Instructors:** O'Neal-Moffitt, Sullivan, Wells Harrison; **Professors Emeriti:** Bailey, Baumeister, Berkley, Brigham, Carbonell, Hokanson, Lang, Megargee, Miller, Rashotte, Smith, Stephan, Torgesen, Weaver

The undergraduate program in psychology offers introductory survey courses to give the liberal studies student a broad background in the study of behavior, as well as upper-division courses for the advanced student who has more specialized interests. The undergraduate major includes a rigorous course of study that covers the methodology and content needed to understand the causes of behavior in humans and animals. It is the intent of the program that the level of knowledge attained by the successful major will be such that the student is well prepared for graduate-level studies in any of the specialty areas in psychology. Likewise, the undergraduate program will provide excellent preparation for those interested in advanced training in a professional school (e.g., law or medical school), although additional coursework outside psychology may be required. Although some students may not wish to pursue graduate studies, this program assures that the successful major will attain a strong science-based liberal arts education, which can prepare students for a variety of careers, although additional training (e.g., internships) may be required.

Majors are required to take two laboratory courses, and qualified students are strongly encouraged to work in the department's research laboratories or to participate in research in educational and clinical settings. Students also are strongly encouraged to consult early and regularly with the departmental Advising Office to be sure they are meeting program requirements and to ask about opportunities for intensive study in a specialty area while pursuing the major, as well as how to better prepare oneself for graduate school or employment. Advisors are available M-F from 9:00 a.m. to 12:00 noon and 1:30 p.m. to 4:30 p.m. Please call *(850) 644-4260* or e-mail *advising@psy.fsu.edu*. The optional areas of emphasis include clinical psychology, cognitive psychology, developmental psychology, neuroscience, and social psychology. Students on the Panama City campus may specialize in applied behavior analysis and performance management. For the student wishing to study abroad, the department offers a summer program to study psychology in London. The Psychology London Program includes two 4000 level elective courses that are not offered at other FSU campuses and that emphasize cultural determinants of behavior. There also may be opportunities to study for a semester in one of FSU's many study centers and programs abroad (including, but not limited to, Florence, Valencia, London, Panama, and Prague) while completing Liberal Studies requirements, one's minor, and/or one's world language requirement. For detailed information about the psychology major and the department, please refer to *http://www.psy.fsu.edu*.

The department also offers an interdisciplinary major, behavioral neuroscience, in conjunction with the Program in Neuroscience and the Department of Biological Science. The behavioral neuroscience major offers students the opportunity to build knowledge across the natural and social sciences – exploring the elaborate chains of causality that lead from molecules to behavior, as well as the dramatic impact exerted by social, personal, and environmental influences on dynamic patterns of human thought and emotion. Students will experience a synthesis of coursework offered by the Departments of Biological Science, Psychology, Chemistry, Physics, Mathematics, and Statistics. The unique multidisciplinary breadth of the behavioral neuroscience major prepares students for a variety of STEM-related careers as technicians, researchers, educators, or health professionals. While understanding human brain function (in health and disease) has long been of central importance to physicians, psychologists, researchers, and educators, the knowledge accruing from this effort is also beginning to impact traditionally non-STEM professions such as law, business, or economics. Students are strongly encouraged to consult early and regularly with the Neuroscience Advising Office to be sure they are meeting program requirements and to ask about opportunities for intensive study in a specialty area while pursuing the major, as well as how to better prepare oneself for

graduate or professional school, or employment. For an appointment, please call *(850) 645-9565* or e-mail *nlilly@neuro.fsu.edu*. For detailed information about the behavioral neuroscience major, please refer to *http://www.neuro.fsu.edu*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in psychology and behavioral neuroscience satisfy this requirement by earning a grade of "C–" or higher in PSY 3213C.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Psychology

1. BSC X0XX or BSC X20X or ZOO X010
2. PSY X012
3. PSY XXXX or any other lower level Psychology class within the Psychology Inventory (e.g., CLP, DEP, EAB, EXP, INP, PCO, PPE, and PSB prefixes)
4. STA XXXX

Behavioral Neuroscience

1. BSC X010/X010L or BSC X010C
2. BSC X011/X011L or BSC X011C
3. CHM X045/X045L or CHM X045C
4. CHM X046/X046L or CHM X046C
5. CHM X210/X210L and CHM X211/X211L
6. PHY X053/X053L
7. PHY X054/X054L
8. MAC X311
9. STA XXXX

Admission Requirements for a Major in Psychology

Admission to the undergraduate program in psychology is based on a minimum GPA and the successful completion of prerequisite course requirements. A Psychology major who applies for readmission to the college must meet the degree requirements of the catalog in force on the date of readmission. Students whose psychology credits are ten years old or older will need to have their existing credits evaluated by the Department of Psychology to determine if any requirements need to be repeated to ensure that their knowledge of Psychology is current.

Note: While some of these requirements overlap with the state of Florida Common Program Prerequisites (listed above), there are additional requirements for formal admission to the psychology major. Please note that students who qualify for upper-division status and who wish to enter FSU as a Psychology major must complete **all** of the following prerequisites **prior** to being accepted at FSU:

1. A minimum GPA of 2.8 in all college-level courses attempted
2. Meet requirements for progression to upper division status
3. Completion of the three courses listed below (each with a "C–" or better); these three courses should be taken as part of the liberal studies requirements or the AA degree.
   a. PSY 2012, General Psychology
   b. One biology course, with one of the following strongly preferred: BSC 1005, 2010, 2085, 2086, PCB 2099, PSB 2000, ZOO X010, or equivalent
   c. Any statistics course, with STA 2122 or STA 2171 strongly preferred. The Research Methods course (PSY 3213C), which is required of all majors, requires that STA 2122 or STA 2171 or equivalent be taken as a course prerequisite (or corequisite, if necessary). It is important that students see a psychology advisor for guidance as to when it is best to schedule these courses.

Requirements for a Major in Psychology

Note: Please see the undergraduate link on the department's Web site at *http://www.psy.fsu.edu* or contact the Psychology Advising Office at *(850) 644-4260* for requirements.

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Please also see the section in this *General Bulletin* on University-wide undergraduate degree requirements regarding the following: diversity, oral communication competency, and computer skills competency. For the Bachelor of Science (BS) degree in psychology, the requirements listed below, along with the requirements of the College of Arts and Sciences, must be fulfilled. For the Bachelor of Arts (BA) degree, nine additional semester hours in the humanities and history are required above and beyond the requirements for the BS degree.

The Department of Psychology offers a broad selection of courses in order for each student to select a curriculum appropriate for his/her needs. All students must fulfill the major requirements listed below, which ensure a balanced program of study. Any of the courses listed below, if presented by the student toward fulfillment of the major, must be completed with a minimum grade of "C–". A student who has accumulated more than four unsatisfactory grades (U, F, D–, D, D+) in courses required for the psychology major, excluding State Common Program Prerequisites listed as Term 1–4 milestones, taken after enrolling at FSU, will not be permitted to graduate with a degree in this major.

In an effort to maintain quality and to give students a direct way to affect the program, the Department of Psychology asks all of its graduating seniors to complete a survey to provide information about their experiences in and impressions of the department.

Required Upper-Level Courses for a Psychology Major

Note: EXP 3202C, 3422C, 3604C; PSY 3213C; and PSB 3004C are each four hour courses with both lecture and laboratory components. These courses previously were three hour lecture courses and separate one hour laboratory courses.

Thirty-six semester hours of psychology courses (not including General Psychology) are required for the major. At least eighteen of these thirty-six hours must be taken in residence at FSU. Courses taken outside the Department of Psychology will not count toward the Psychology thirty-six hour requirement. Courses with a WST prefix will not count toward the Psychology major, even though they may be listed on the Psychology course search. Students pursuing a double major may use up to six hours of Psychology coursework toward another major, provided that major accepts those courses. Students should check with advisors in both majors on these course requirements. Students can use only one psychology course (either IDS 2651 or PSB 2000) to count toward both psychology major and liberal studies requirements. The thirty-six hours must include:

Group 1: Research Methods. STA 2122 or 2171 or equivalent is a prerequisite (or corequisite, for students with prior statistics credit). Group 1 totals four hours of credit. PSY 3213C must be completed by the end of Term 5 (first semester, junior year).

PSY 3213C Research Methods in Psychology with Laboratory (4)

Group 2: Neuroscience. Students must take PSB 2000. If PSB 2000 is used for the biology requirement for entrance into the major, students will need to take one biology course while in the major (e.g., BSC 1005, BSC 2010, BSC 2085, BSC 2086; PCB 2099; PSB 2000; ZOO X010, or equivalent). PSB 2000 must be completed by the end of Term 5 (first semester, junior year).

Group 3: Social, Cognitive, Clinical, and Developmental Psychology. Students must take one course in at least three of these four areas of psychology. The following list is a guide to the courses that qualify under each area; students can consult the advising office about whether other courses are eligible to count toward a particular area.

- **Clinical Psychology:** CLP 3305 (Clinical and Counseling Psychology), CLP 4134 (Abnormal Child Psychology), CLP 4110 (Eating Disorders), CLP 4143 (Abnormal Psychology), CLP 4392 (Psychology of Criminal Behavior),

- **Cognitive Psychology:** EXP 3604C (Cognitive Psychology with Laboratory), EXP 4404 (Human Memory and Learning), EXP 4640 (Psychology of Language)
- **Developmental Psychology:** DEP 3103 (Child Psychology), DEP 4404 (Psychology of Adult Development and Aging)
- **Social Psychology:** SOP 3004 (Social Psychology), SOP 4722 (Prejudice and Stereotyping), PPE 3003 (Psychology of Personality)

Group 4: Lecture/Laboratory Courses. Students must take one course from the list below. Each course contains a lecture and laboratory component.

EXP 3202C Sensation and Perception with Laboratory (4)
EXP 3422C Conditioning and Learning with Laboratory (4)
EXP 3604C Cognitive Psychology with Laboratory (4)

Note: If EXP 3604C is used to fulfill a Group 3 requirement, it may also be used to fulfill the Group 4 laboratory requirement. By double-counting, students will not be able to graduate with fewer hours in the major; rather, they will take more psychology electives (Group 6) to total thirty-six semester hours. Group 4 adds between zero and four hours of credit, depending on if EXP 3604C is double counted.

Group 5: Careers in Psychology. Students must complete Careers in Psychology (PSY 2023) by the end of Term 5 (first semester, junior year).

Group 6: Psychology Electives. Students must take enough psychology elective courses to total thirty-six hours of psychology courses (not including General Psychology). Group 6 adds fifteen to eighteen hours of credit.

d. Up to nine total hours of applied learning experiences can count toward psychology electives. Courses in this category include Directed Individual Study (DIS: PSY 4911–4914) and Research Topics (PSY 4910, 4915, 4920) and Psychology Internship (PSY 4944). These are taken by instructor permission only. Students can take a total of up to fifteen hours of these applied courses for university credit, but only nine hours total will count toward the psychology major.
e. Honors thesis work (PSY 4039r). Students can use honors thesis work to bring the total number of hours of applied courses that count toward the major to twelve hours maximum. For example, if a student took nine combined hours of PSY 4920 and PSY 4911, he/she can count an additional three hours of honors thesis work toward the major.
f. Psychology electives are courses listed under the department's code of "ASPSY", excluding courses used to meet Groups 1 through 5 requirements. If courses in Groups 3 or 4 are taken beyond the minimum requirements, they may count as electives.
g. For students who have not taken any 4000-level psychology courses at Florida State University to fulfill Psychology requirements, at least three hours of psychology electives must be taken at the 4000-level at Florida State University. This cannot include PSY 4910–4915, PSY 4920, PSY 4039, PSY 4944, or PSY 4970.
h. ISC 4244C (Computer Applications in Psychology with Lab) counts as a 4000-level psychology elective.

Admission Requirements for a Major in Behavioral Neuroscience

Neuroscience is the study of brain and nervous system function. The elective coursework in the behavioral neuroscience major offers an emphasis that includes the effects of sensory and social experience on brain and behavior, the mechanisms of learning and memory, cognitive processes and emotion, human brain disorders and disease, and the neural and behavioral effects of drugs and hormones. Due to the limitations in the number of faculty and physical resources, admission to the behavioral neuroscience major will be based on the following admission requirements:

1. A minimum GPA of 2.80 in all college-level courses attempted.
2. Completion of the following courses with a grade of "C minus" or higher:
   a. BSC X010, X010L (3, 1) Biological Science I and Lab
   b. BSC X011, X011L (3, 1) Biological Science II and Lab
   c. CHM X045, X045L (3, 1) General Chemistry I and Lab
   d. CHM X046, X046L (3, 1) General Chemistry II and Lab
   e. MAC X311 (4) Calculus I
   f. STA X0XX (3) Statistics: STA 2122 (3) preferred
3. Completion of at least 52 academic credits or an A.A. Degree.
4. A preliminary meeting with the Neuroscience Academic Advisor (*nlilly@neuro.fsu.edu*) to discuss program requirements and career goals.

Certification and admission to upper-division status can occur during any semester (Fall, Spring, Summer). However, prospective transfer students should contact Ms. Shellie Camp, *as-admissions@fsu.edu*, with specific questions about admission and mapping requirements.

Requirements for a Major in Behavioral Neuroscience

Summary of Minimum Program Requirements

1. Total Hours Required: 120
2. General Education: 36 (encouraged to take PSY 2012 to fulfill Social Science requirement) *
3. Collateral Coursework: 37
4. Major Coursework: 36
5. Minor Coursework: 0 (none beyond collateral science coursework, which constitutes a minor)
6. Foreign Language: 0–12 (depending on placement)
7. Computer Skills: 0 beyond major requirements PSY 3213C
8. Oral Competency: 0–3
9. Electives to bring total hours to 120

Note: Some coursework required for the major may also be applied towards General Education and/or minor requirements.

Major Program of Studies at FSU

36 hours of degree core and elective coursework. Grades below "C-" will not be accepted for major credit.

A student who has accumulated more than four unsatisfactory grades (U, F, D–, D, D+) in courses required for the behavioral neuroscience major, excluding State Common Program Prerequisites listed as Term 1–4 milestones, taken after enrolling at FSU, will not be permitted to graduate with a degree in this major.

Students must complete the following requirements:

Degree Core Coursework (19 hours)

PSY 2012 General Psychology (3)
PCB 3134 Cell Structure and Function (3)
PSY 3213C Research Methods (4)
PCB 4843 Fundamentals of Neuroscience (3)
PSB 3004C Physiological Psychology with Brain Anatomy Lab (4)
PSB 4057 Molecules to Behavior (2)

Degree Elective Coursework (17 hours)

Take any combination of Biological Science electives up to 6 hours:

PCB 3063 General Genetics (3)
PCB 4024 Molecular Biology (3)
PCB 4024L Molecular Biology Lab (1)
PCB 4233 Immunology (3)
PCB 4233L Immunology Lab (1)
PCB 4244 Biology of Aging (3)
PCB 4253 Animal Development (3)
PCB 4701 Human Physiology (3)
BSC 4731L Experimental Physiology Lab (2)
BSC 4900 Directed Individual Study (1–6)
ZOO 3713C Comparative Vertebrate Anatomy (4)
ZOO 4343C Biology of Lower Vertebrates (4)
ZOO 4353C Biology of Higher Vertebrates (4)
ZOO 4513 Animal Behavior (4)
ZOO 4753C Histology (4)

Take any combination of Psychology electives up to 11 hours:

EXP 3202C Sensation and Perception with Lab (4)
EXP 3422C Conditioning and Learning with Lab (4)
EXP 3604C Cognitive Psychology with Lab (4)
EXP 4640 Psychology of Language (3)
PSB 4006 Social Neuroscience (3)
PSB 4040 Affective Neuroscience (3)
PSB 4240 Neurobiology of Brain Dysfunction (3)

PSB 4447 Psychopharmacology (3)
PSB 4461 Hormones and Behavior (3)
PSB 4710 Biology of Eating Disorders and Obesity (3)
PSB 4731 Biopsychology of Sexual Behavior (3)
PSY 4920 Directed Individual Study (1–6)
CLP 4143 Abnormal Psychology (3)
CBH 4304 Behavioral Genetics (3)
SOP 3004 Social Psychology (3)

Minor Coursework

None beyond the prerequisite science coursework, which constitutes a minor.

Computer Skills Competency (0 beyond major requirements)

PSY 3213C Research Methods in Psychology meets this requirement.

Oral Communication Competency (0–3 hours)

Students must demonstrate the ability to orally transmit ideas and information clearly. This requirement may be met with an approved college-level course such as SPC 2017 or SPC 2608.

Class Attendance

The Department of Psychology enforces a strict first-day attendance policy. Students missing the first day of any class or laboratory will be dropped. For courses involving both a lecture and laboratory component, students missing the first day of **either** component will be dropped from the four-credit course.

Honors in the Major

The Department of Psychology offers an Honors in the Major program to encourage talented students to undertake independent and original research as part of the undergraduate experience. Students conduct this research under the supervision of a psychology faculty member. Completing an honors project contributes greatly to one's preparation for graduate studies in psychology and related fields. Students must have a 3.5 GPA in psychology courses and must be admitted into the University Honors in the Major Program prior to beginning this research. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*. Students should identify a psychology faculty mentor for supervision of their honors thesis research before applying to the University Honors in the Major Program.

Requirements for a Minor in Psychology

Twelve semester hours of psychology are required for a minor in psychology. One of these courses must be PSY 2012, General Psychology (3). Grades below "C–" will not be accepted for credit toward the minor. A minimum of six of the required semester hours must be completed at Florida State University. No courses used for satisfying the liberal studies requirements may count toward the minor, nor may any courses taken for an S/U grade. Also, courses with a WST prefix will not count toward the psychology minor.

Areas of Special Emphasis

Several areas of emphasis are available for students. The areas are clinical psychology, cognitive psychology, developmental psychology, neuroscience, and social psychology. The recommended curriculum includes coursework and DIS or Research Topics to provide students with a strong background in scientific method and content pertinent to their areas of particular interest.

Bachelor's Degree in Psychology at Panama City

Students may complete the requirements for the Bachelor of Science (BS) in psychology at the Panama City campus. Classes typically are small and meet once per week for two and a half to three hours. Students should refer to the common course requirements for this degree program.

For additional information about the psychology programs at the Panama City campus, visit *http://www.pc.fsu.edu*.

The Panama City campus houses the Early Childhood Autism Program, where students are able to learn about autism treatment. For more information about this program, visit *http://pc.fsu.edu/about-us/grade-school-programs/ecap*.

Admission Requirements at Panama City

Admission requirements for the Panama City campus are:

1. A minimum GPA requirement in all attempted courses: Check with a Panama City psychology advisor regarding current GPA requirement at Panama City, which may differ from the 2.8 required at the main campus.
2. Completion of the three courses listed below (each with a "C–" or better). These three courses should be taken as part of the liberal studies requirements or the AA degree:
   a. PSY 2012 General Psychology
   b. One biology course, with one of the following strongly preferred: BSC 1005, 2010, 2085, 2086, PCB 2099, PSB 2000, ZOO X010, or equivalent
   c. Any statistics course, with STA 2122 or STA 2171 strongly preferred. The Research Methods course (PSY 3213C), which is required of all majors, requires that STA 2122 or STA 2171 or equivalent be taken as a course prerequisite (or corequisite, if necessary). It is important that students see a psychology advisor for guidance as to when best to schedule these courses.

Required Upper-Level Courses for a Psychology Major at Panama City

Graduation requirements for the psychology major are the same as those at the Tallahassee campus.

Note: For further information about admission, degree requirements, minor requirements, or the world language requirements for the bachelor's degree program, contact the FSU Panama City campus at *(850) 872-4750*, or toll free at *(866) 539-7588*, or refer to *http://www.pc.fsu.edu*.

Definition of Prefixes

CBH—Comparative Psychology and Animal Behavior
CLP—Clinical Psychology
DEP—Developmental Psychology
EAB—Experimental Analysis of Behavior
EXP—Experimental Psychology
IDS—Interdisciplinary Studies
INP—Industrial and Applied Psychology
ISC—Interdisciplinary Sciences
PCB—Process Biology (Cell/Molecular/Ecology/Genetics/Physiology)
PPE—Personality
PSB—Psychobiology
PSY—Psychology
SOP—Social Psychology

Undergraduate Courses

General Psychology

IDS 2651. Language: Body, Mind, and World (3). This course provides an examination of language from biological, psychological, and social perspectives, and considers ways that our knowledge of language can be deployed to tackle real-world issues in areas such as health, law, and education.

PSY 2012. General Psychology (3). This course is a broad overview covering important psychological principles and findings within major subfields of psychology, and the basic scientific methods employed. A "bio-psycho-social" approach is emphasized throughout so that all behaviors (including how we think, feel, and act) are discussed in terms of biological, psychological, and social determinants and consequences.

PSY 2023. Careers in Psychology (1). (S/U grade only.) Prerequisite: PSY 2012. This course is intended for psychology majors who are uncertain about their career goals. Students learn what career opportunities are available in psychology and related fields and what these careers involve. Students are encouraged to take this course early in their undergraduate years so they can pursue opportunities at FSU that will help prepare them for their chosen career paths.

PSY 2029. New Student Seminar in Psychology (1). (S/U grade only.) This course allows incoming freshmen and transfer students an opportunity to become familiar with the field of psychology, the Florida State University Department of Psychology, and techniques for achieving success in college.

PSY 3213C. Research Methods in Psychology with Laboratory (4). Prerequisites: Psychology major status, and PSY 2012, and STA 2122 or STA 2171 or equivalent. PSY 2012 may be taken as a corequisite. This course is an introduction to philosophical and methodological issues in the empirical study of psychology. Laboratory portion includes running simple experiments, analyzing data, and interpreting the results.

PSY 3810. Evolutionary Psychology (3). Prerequisite: PSY 2012. This course uses ideas from social psychology, cognitive science, and evolutionary biology to understand the foundations of human nature. Specific topics include close relationships, kinship, cooperation, aggression, and social hierarchy.

PSY 4604. History and Systems of Psychology (3). Prerequisites: PSY 2012, junior or senior standing. This course covers the philosophical and scientific antecedents of modern psychology and the history of psychology as an independent scientific discipline.

Behavioral Neuroscience

CBH 4304. Behavioral Genetics (3). Prerequisites: PSY 2012 and STA 2122 or STA 2171 or equivalent. This course examines the application of genetic methods to human and animal behavior. Genetic methods discussed include twin and adoption as well as molecular studies. Behaviors to be examined include personality, intelligence, and psychopathology.

EXP 3202C. Sensation and Perception with Laboratory (4). Prerequisites: EXP 3213C, and PSB 2000 or PSB 3004C. This course provides students with a sound foundation in how sensory systems interpret the world. The course explores each of the primary sensory systems by defining the physical energy that is detected, examining how that energy is transduced into neural impulses, and sampling how aspects of that information are encoded to provide a representation of the world.

EXP 3422C. Conditioning and Learning with Laboratory (4). Prerequisites: EXP 3213C, and PSB 2000 or PSB 3004C. This course explores how experience affects the behavior and physiological functioning. It provides an overview of learning from a behavioral (classical and operant conditioning) and neuroscientific perspective.

PSB 2000. Introduction to Brain and Behavior (3). This course helps students understand basic nervous system mechanisms that underlie behavior and how systematic observation and experimentation are involved in constructing our understanding of these mechanisms. The course also conveys an appreciation for utilizing critical thinking and scientific knowledge when making important decisions. (Cannot be taken after PSB 3004C.)

PSB 3004C. Physiological Psychology with Laboratory (4). Prerequisites: PSB 2000, and PSY 3213C or BSC 2010. This course provides a proper overview of the biological aspects of psychology (a.k.a. biopsychology, physiological psychology or behavioral neuroscience) as well as the necessary background for the upper level coursework in behavioral and cognitive neurosciences in this department. As such, the first part of this course focuses on basic structure, function, physiology, pharmacology, development, evolution of the nervous system, and common methodologies used in these fields. The remaining two-thirds of the course will focus on sensory systems and biological processes underlying complex behaviors (e.g., emotion, ingestive behaviors, learning, memory, neuropsychiatric disorders).

PSB 4006. Social Neuroscience: Neurobiology of Social Behavior (3). Prerequisite: PSB 2000 or PSB 3004C. This course orients students to foundational research in the neurobiology of social behavior. This course focuses on genes, molecules, and neural circuits supporting social interaction, in mammalian neural systems (including humans) and other taxa. Students develop a skill reading the primary scientific literature and refine their critical thinking skills.

PSB 4040. Affective Neuroscience (3). Prerequisites: PSY 2012, a cognitive course, a neuroscience course, and junior/senior standing. This course examines the neural basis of emotion, including how the brain analyzes incoming sensory information, categorizes its motivational value, and initiates an ecologically appropriate response. The course also covers cognition-emotion interaction, abnormal emotional processing, and basic topics in cognitive neuroscience.

PSB 4240. Neurobiology of Brain Dysfunction (3). Prerequisites: PSY 2012 and PSB 2000 or PSB 3004C or three semester hours in biology. This course focuses on clinical neuroscience, which is the exploration of the neurobiological foundations of brain dysfunction and major diseases affecting the central nervous system, including mental health and mental illness.

PSB 4400. Neuroscience Methods: Molecules to Behavior (2). Prerequisite: Neuroscience major or NFA Neuroscience major. This course begins with a brief history of the experimental methods used in neuroscience, then introduces students to the modern approaches used by the FSU Neuroscience faculty in their research/experimental programs. The course concludes with information on how an understanding of experimental methods in neuroscience leads to a variety of career opportunities.

PSB 4447. Clinical Psychopharmacology (3). Prerequisites: PSY 2012 and PSB 2000 or PSB 3004C or three semester hours in biology. This course covers neuropsychopharmacology, including the behavioral effects of brain-mind altering drugs (i.e. psychotropics) and the biological action of drugs used to treat psychological disorders.

PSB 4461. Hormones and Behavior (3). Prerequisites: PSY 2012 and PSB 2000 or PSB 3004C or three semester hours in biology. This course provides students with current knowledge of interactions between hormones and behavior with emphasis on the brain regulation of hormone-behavior interaction in mammalian species including humans.

PSB 4641. Pain and Suffering (3). This course combines formal lectures, student-teacher discussions, and student presentations to understand what we currently know and how we can increase our knowledge about the multifaceted (genetic, biological, physiological, psychological, sociocultural) mechanisms underlying pain.

PSB 4710. Biology of Eating Disorders and Obesity (3). This course explores the biological and genetic factors that may increase susceptibility to develop an eating disorder or obesity. It also provides a survey of biological changes that arise in individuals with an eating disorder or obesity.

PSB 4731. Biopsychology of Sexual Behavior (3). Prerequisites: PSY 2012 and PSB 2000 or PSB 3004C or three semester hours in biology. This course studies biological and sociocultural determinants of sexual development particularly as it relates to sexual orientation, sexual preference, and purported gender differences in personality, cognition, and mental disorders.

Human Learning and Cognition

EXP 3604C. Cognitive Psychology with Laboratory (4). Prerequisite: PSY 3213C. This course covers contemporary approaches to human learning, memory, and higher mental processes; lecture plus laboratory experiments.

EXP 4404. Human Memory and Learning (3). Prerequisites: PSY 2012. This course introduces issues related to human memory and learning. Theories of memory, including memory systems, capacity and duration of memory, and basic memorial processes are discussed. Applied issues are covered, including disorders of memory (e.g., Alzheimer's disease), repressed memories, and memory improvement.

EXP 4640. Psychology of Language (3). Prerequisites: PSY 2012. This course focuses on the mental processes involved in language use (e.g., speech, comprehension, conversation, and writing).

Clinical

CLP 3003. Psychology of Adjustment (3). Prerequisite: PSY 2012. This course covers human adjustments and the resulting forms of behavior. Abnormal and normal behavior are contrasted. Special emphasis on the determinants of adjustments.

CLP 3305. Clinical and Counseling Psychology (3). Prerequisite: PSY 2012. This course is a survey of the theory, research, and treatment procedures in the clinical process.

CLP 3314. Health Psychology (3). Prerequisite: PSY 2012. This course is a survey of health psychology and behavioral medicine. Topics include mind/body connections, health and disease, stress and coping, and psychology in medical settings.

CLP 4110. Eating Disorders (3). Prerequisites: PSY 2012. Junior or senior standing is strongly recommended. This course presents an in-depth investigation of eating disorders including anorexia nervosa, bulimia nervosa, and eating disorders not otherwise specified, spanning topics such as biological bases of disordered eating, cultural and historical patterns in prevalence of eating pathology, and cognitive disturbances and personality features associated with eating disorders.

CLP 4134. Abnormal Child Psychology (3). Prerequisite: DEP 3103. This course focuses on the development, maintenance, assessment, and treatment of various psychological disorders of childhood and adolescence. Theoretical perspectives and research findings are discussed pertaining to anxiety, depression, autism, conduct disorder, attention-deficit disorder/hyperactivity disorder, and learning disabilities.

CLP 4143. Abnormal Psychology (3). Prerequisite: PSY 2012. Junior or senior standing is strongly recommended. This course focuses on the causes of personality disorganization, diagnosis and treatment of mental illness, and developments in experimental psychopathology.

CLP 4182. Addictive Behaviors (3). Prerequisites: PSY 2012 and junior or senior standing. This course addresses the broad concept of "addiction," emphasizing substance use problems, but touching on other gratifying compulsive behaviors such as overeating, gambling, and certain sexual deviations. Critical thinking about the available theoretical, empirical, and popular literature as a well as relevant public policy is the focus.

CLP 4392. Psychology of Criminal Behavior (3). Prerequisite: PSY 2012. This course focuses on understanding psychological factors relevant to the development and maintenance of criminal behavior. As a point of reference for understanding the intrapersonal factors contributing to criminality, the course focuses in detail on the clinical phenomenon of psychopathic personality, or "psychopathy", and the related concept of antisocial personality disorder.

CLP 4950. Abnormal Psychology Field Experience (1). (S/U grade only.) Prerequisites: CLP 4143, PSY 2023, and instructor permission.

Life–Span Development

DEP 3103. Child Psychology (3). Prerequisite: PSY 2012. This course provides broad coverage of topics concerning the biological, social, and cognitive aspects of children.

DEP 3305. Psychology of Adolescent Development (3). Prerequisite: PSY 2012. This course examines recent research dealing with adolescents. Emphasis is placed on the influence of growth and on the role of cultural pressures on behavior.

DEP 4404. Psychology of Adult Development and Aging (3). Prerequisite: PSY 2012. This course focuses on the study of the major psychological issues of adulthood and aging, including age-related changes in psychological, social, and physical functioning; interpersonal and family relationships; career development and retirement; mental and physical health; death and bereavement; and coping with the process of aging.

Social/Personality

PPE 3003. Psychology of Personality (3). Prerequisite: PSY 2012. This course is an introduction to methods, theory, and research in personality.

SOP 3004. Social Psychology (3). This course involves the scientific study of how people think about, influence, and relate to one another. Subjects include individual, cultural, behavioral, and biological levels of analysis.

SOP 3742. Psychology of Women (3). Prerequisite: PSY 2012. This course is a systematic study of research and theories about gender, including psychological differences and similarities between sexes.

SOP 3751. Psychology and the Law (3). Prerequisite: PSY 2012. This course is an examination of the interface between psychology and legal issues. Research on judges, juries, defendants, and police are among topics covered, as well as the role of psychologists in the legal system.

SOP 3782. Psychology of the African-American (3). Prerequisite: PSY 2012. This course is a critical examination of the psychocultural forces that shape and determine the unique behavior of African-Americans.

SOP 4214. Experimental Social Psychology (3). Prerequisites: PSY 2012 and SOP 3004. This course covers in-depth analysis of several central areas of social psychology with an emphasis on designing and carrying out research in these areas.

SOP 4722. Prejudice and Stereotyping (3). Prerequisites: PSY 2012 and SOP 3004. This course explores the nature of prejudice and stereotyping in our society using a social psychological perspective.

SOP 4850. Moral Psychology (3). Prerequisites: PSY 2012 and SOP 3004. This course integrates perspectives from psychology, philosophy, biology neuroscience, and development to scientifically examine how people think about morality, how morality functions, and where it comes from.

Behavioral–Performance Management

EAB 3703. Applied Behavior Analysis (3). This course introduces the basic principles of behavior and exposes students to settings where techniques based on learning theory can be used therapeutically.

INP 3313. Behavior Analysis in Business and Industry (3). Prerequisites: EAB 3703, EXP 3422C, and PSY 2012. This course examines behavior principles as they are applied in business, industry, and government.

Multiple Areas

ISC 3076. Science, Technology, and Society (3). This course examines interrelations among science, technology, and society. Science is considered as an enterprise in modern society that produces technological advances and new perspectives on reality.

PSY 4039r. Honors Work (1–6). May be repeated to a maximum of nine semester hours.

PSY 4910r. Augmented Research Topics (1–3). Prerequisite: PSY 2012, acceptance into the University Honors Program, instructor permission. In this course, students participate in a research project in a specific area of psychological research. Participation is more advanced than in PSY 4920, and involves the generation of an extensive written product. The nature of the research and written product is specified by the directing professor. May be repeated to a maximum of nine (9) credit hours; repeatable within the same term.

PSY 4911r–4914r. Directed Individual Study (one to three hours each.) (S/U grade only.) Prerequisite: Instructor permission. This course is a study on a selected topic as designated by the student and the directing professor. Each course may be repeated to a maximum of three semester hours.

PSY 4915r. Honors Advanced Research Topics (1–3). Prerequisites: PSY 2012, acceptance into the University Honors Program, instructor permission. This course involves participation in a research project on a selected topic as designated by the directing professor and the student. Participation includes more advanced work than PSY 4920 and a written product, the nature of which is detailed in a written contract between professor and student. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

PSY 4920r. Research Topics (1–3). (S/U grade only.) Prerequisite: PSY 2012. This course consists of participation in a group research project on a selected topic as designated by the directing professor. May be repeated to a maximum of 15 semester hours within the same term.

PSY 4930r. Special Topics in Psychology (3). Prerequisite: PSY 2012. Topics vary. May be repeated to a maximum of twenty-four semester hours. May be repeated within the same semester.

PSY 4944r. Psychology Internship (1–6). (S/U grade only.) Prerequisite: PSY 2012. This course allows students to take an internship experience for course credit. Before registering for the course, students need to arrange the internship experience. The psychology advising office can provide guidance on the process of setting up the internship. May be repeated to a maximum of twelve semester hours.

PSY 4970r. Honors Seminar (1). (S/U grade only.) Prerequisites: 3.2 overall GPA and 3.5 Psychology GPA. This course provides exposure to state-of-the-art research of psychology faculty to increase breadth in the discipline and to help select a thesis topic and research mentor. May be repeated to a maximum of four semester hours.

Graduate Courses

General

PSY 5605. History and Systems of Psychology (3).
PSY 6945. Teaching Psychology Practicum (3).

Applied Behavior Analysis

EAB 5700. Basic Principles of Behavior (3).
EAB 5701. Basic Methods of Applied Behavior Analysis (3).
EAB 5708. Experimental Analysis of Behavior (3).
EAB 5710. Behavioral Analysis in Developmental Disabilities and Autism (3).
EAB 5711. Behavioral Analysis in Mental Health and Aging (3).
EAB 5721. Behavioral Analysis in Education and Performance Management (3).
EAB 5722. Behavior Analysis in Education (3).
EAB 5740. Behavior Analysis in Performance Management and Supervision (3).
EAB 5780. Ethical and Professional Issues in Applied Behavior Analysis (3).
EAB 5796. Research Methods in Applied Behavior Analysis (3).
EAB 5940. Applied Behavioral Analysis Practicum (3). (S/U grade only.)
EAB 5941. Applied Behavioral Analysis Practicum (3). (S/U grade only.)
EAB 5942. Applied Behavioral Analysis Practicum (3). (S/U grade only.)
EAB 6130r. Seminar on Skinner's Theory of Behaviorism (3).

Clinical: Personality

CLP 5189. Diversity in Individuals and Cultures: Issues for Clinical Psychology (3).
CLP 5196. Techniques of Behavioral Change (3).
CLP 5375. Research Design and Methods in Clinical Psychology (3).
CLP 5436. Personality & Diagnostic Assessment (3).
CLP 5475. Child Development and Psychopathology (3).
CLP 5624. Ethics and Standards of Professional Practice (3). (S/U grade only).
CLP 5941r. Psychology Clinic Practicum (1–3). (S/U grade only.)
CLP 5942r. Psychology Clinical Advanced Practicum (1–3). (S/U grade only).
CLP 6169. Adult Development and Psychopathology (3).
CLP 6920r. Current Issues in Clinical Psychology (1). (S/U grade only.)
CLP 6945r. Techniques of Clinical Supervision (1–3). (S/U grade only.)
PSY 5325. Cognitive Assessment (3).
PSY 6940r. External Placement Practicum (1–6). (S/U grade only.)
PSY 6948r. Psychology Internship (1–9). (S/U grade only.)

Human Learning and Cognition

EXP 5508. Cognition and Perception (3).
EXP 5642. Psychology of Language (3).
EXP 6609r. Seminar in Higher Mental Processes (3).
EXP 6920r. Issues in Cognitive Science (1). (S/U grade only.)

Life-Span Development

DEP 5165. Developmental Psychology (3).
DEP 6117r. Issues in Developmental Psychology (1). (S/U grade only.)

Psychobiology/Neuroscience

EXP 5406. Neurobiology of Learning and Memory (3).
EXP 5717. Animal Psychophysics (3).
PCB 5845. Cell and Molecular Neuroscience (4).
PSB 5056. Biological Psychology (3).
PSB 5057. Neuroscience Methods: Molecules to Behavior (2).
PSB 5077. Responsible Conduct of Research (2).
PSB 5230C. Vertebrate Neuroanatomy (4).
PSB 5341. Systems and Behavioral Neuroscience (3).
PSB 6048. Affective Neuroscience (3).
PSB 6059r. Seminar in Physiological Psychology (3).
PSB 6070r. Current Problems in Neuroscience (2). (S/U grade only.)
PSB 6920r. Neuroscience Colloquium (1). (S/U grade only.)
PSB 6933r. Seminar in Neuroscience (1–2).

Social-Personality

SOP 5069. Personality and Social Psychology (3).
SOP 6920r. Current Issues in Social Psychology (1). (S/U grade only.)
SOP 6939r. Seminar in Social Psychology (3).

Multiple Area Courses

PSY 5900r. Individual Research Study (3–9).
PSY 5908r. Directed Individual Study (1–3). (S/U grade only.)
PSY 5916r. Selected Research Topics (3).
PSY 5917r. Supervised Research (1–5). (S/U grade only.)
PSY 5947r. Supervised Teaching (1–5). (S/U grade only.)
PSY 6919r. Seminar in Current Research Topics (1–3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Reubin O' D. Askew School of PUBLIC ADMINISTRATION AND POLICY

Undergraduate Programs

College of Social Sciences and Public Policy

Website: *https://coss.fsu.edu/askew/*
Director: Keon-Hyung Lee; **Professors:** Berry, Brower, Feiock, Lee, Reid, VanLandingham, Yang; **Assistant Professors:** Berlan, Campos, Fay, Tang, Wright; **Visiting Professors and Adjunct Faculty:** Banner, Dilling, Duggleby, Ferreros, Gleason, Grant, Heffron-Casserleigh, Lavin, Long, McDaniel, Merrick, Skillman, Smith; **Professors Emeriti:** Bowman, Chackerian, deHaven-Smith, Grizzle, Klay

The Reubin O'D. Askew School of Public Administration and Policy is one of the most highly ranked schools of its type in the nation. The school does not offer a major to undergraduate students, but it does offer a minor as well as a concentration in the interdisciplinary program in social science (ISS). The school also offers a five-year combined bachelor's/professional master's pathway. Qualified undergraduate students in any major may begin graduate studies in the professional Master of Public Administration (MPA) degree and apply those credits toward their bachelor's degree as well.

Combined BA or BS and Master of Public Administration (MPA) Pathway

Qualified students in any undergraduate major may use up to twelve hours of free electives to take graduate courses in public administration that will count for completion of both the bachelor's degree and the professional MPA degree. Completion of graduate courses through the combined bachelor's/master's pathway will also count for completion of an undergraduate minor in public administration. Qualified undergraduates who take public administration courses to satisfy major requirements in the bachelor's degree programs in either political science or interdisciplinary social science may take up to twelve hours of graduate credit that will be counted for completion of both their bachelor's degree major and the MPA degree. In addition, undergraduate students who take the *PAD 3941, Public Service Internship* course may waive the graduate internship course requirement. Normally, for inexperienced students, the MPA degree requires completion of forty-five graduate credit hours following receipt of a bachelor's degree. Students in the Combined Bachelor's/Master's Pathway who complete twelve graduate credits and an undergraduate internship prior to receipt of their bachelor's degree will only need to complete thirty additional graduate credits to receive the MPA degree. For more information, refer to the *Graduate Bulletin* and the Askew School's website at *https://coss.fsu.edu/askew/*.

Acceptance to this pre-graduate program is competitive. Applications will only be considered from undergraduates who are entering their senior year, or who are honor students with junior status, and who have a cumulative undergraduate grade point average of at least 3.2 in all prior studies at FSU. Application forms are to be submitted to the School's academic program specialist. Accepted undergraduates may then enroll for up to twelve hours in courses that are either core or elective courses in the MPA program. Students accepted to the pre-graduate program should subsequently make formal application for admission to the graduate school during their senior year. Acceptance and successful completion of the pre-graduate program does not guarantee admission into the graduate MPA program.

For more information, refer to the Askew School's website at *https://coss.fsu.edu/askew/*.

Requirements for a Minor and Undergraduate Certificate in Public Administration

A minor in public administration is available to students in all majors except political science, where undergraduate courses in public administration are applied directly to the political science major. For other students, the minor in public administration consists of four courses, totaling twelve (12) semester hours passed with a grade of "C" or better. One of the following Department of Political Science courses may be substituted: State Politics (POS 3122), Urban Politics (POS 3142), Florida Government (POS 3182) and The American Presidency (POS 4413). Courses should be approved by the school in consultation with the student.

Topics in regularly scheduled undergraduate classes include:

- Administrative law
- American public service
- Budgets and finances in managing public affairs
- Civic and non-profit management

- Local government administration
- Emergency management
- Public administration in American society
- Selected topics in public administration

The school, upon application from the student, recognizes successful completion of requirements for the undergraduate minor with an undergraduate Certificate in Public Administration. Students interested in the Certificate program must apply before the completion of the sixth (6) credit hour, or second course, in the Certificate program. If approved by the school, some transfer credits may be accepted. All courses in the certificate program must be letter graded. Pass/Fail (S/U) grades will not count toward the certificate. The certificate credential is not intended as a diploma or degree. It is recommended that the student check with the school to be sure courses taken will apply to the certificate.

The school also offers undergraduate certificates in Emergency Management and Homeland Security, Application of Unmanned Aircraft Systems, and U.S. Intelligence Studies. Courses in emergency management are foundational courses for careers in emergency management and are useful for students entering careers in the management of business, government, and non-profit organizations.

Both degree-seeking and non-degree students are eligible for the undergraduate certificates. Please contact the school for further details.

Certificate in Emergency Management and Homeland Security

The undergraduate Certificate in Emergency Management and Homeland Security includes a variety of skill and knowledge concentrations appropriate for practicing managers and others interested in the field. To earn the certificate, two required courses and two additional ones selected from those offered by the Askew School must be completed. The undergraduate Certificate in Emergency Management and Homeland Security is twelve (12) credit hours total. A grade of "C" or higher must be earned in all certificate courses. Students interested in the Certificate program must apply before the completion of the sixth (6) credit hour, or second course, in the Certificate program.

Required Courses

PAD 4391 Foundations of Emergency Management (3)
PAD 4393 Emergency Management Programs, Planning and Policy (3)

Elective Courses

PAD 4372 Emergency Management Leadership and Communications (3)
PAD 4374 Introduction to Terrorism: Preparedness and Response (3)
PAD 4375 Advanced Topics in Terrorism (3)
PAD 4395 Disaster Systems (3)
PAD 4833 International and Comparative Disaster Management (3)
PAD 4831 International Conflicts and Terrorism (3)
PAD 4844 Public Health and Emergency Management (3)
PAD 4890 Homeland Security Policy and Practice (3)
PAD 4891 NGOs and Disasters (3)
PAD 4382 Disaster Dollars: The Financing of Emergency Management Recovery (3)
PAD 4075 Unmanned Aircraft Systems in Emergency Management (3)
PAD 4084 International Terrorism Policy (3)
PAD 4083 Terrorism and Security in Africa (3)
PAD 4301 Disaster Management Planning for Urban Poor Communities (3)
PAD 4380 Disasters: From Shock to Recovery (3)
PAD 4843 U.S. Intelligence Community (3)
PAD 4897 Global Security and Fusion (3)
PAD 4842 U.S. Intelligence Policy (3)
PAD 4841 U.S. Intelligence Analysis and Communication (3)
PAD 4433 Women, Disasters and Conflict (3)
PAD 4936r Seminar in Public Administration: Selected Topics (1–3) [in emergency management; repeatable]
PAD 3931 Mega Disasters (3)

Certificate in Application of Unmanned Aircraft Systems

The undergraduate Certificate in Application of Unmanned Aircraft Systems provides students with practical 'hands on' usage of the technology as well as the regulatory frameworks, requirements, and realities of using this data in a variety of fields. To earn the certificate, two required courses and two additional ones selected from those offered by the Askew School and the Geography, Urban and Regional Planning, and Geology departments must be completed. The undergraduate Certificate in Application of Unmanned Aircraft Systems is twelve (12) credit hours total. A grade of "C" or higher must be earned in all certificate courses. Students interested in the Certificate program must apply before the completion of the sixth (6) credit hour, or second course, in the Certificate program.

Required Courses

PAD 4075 Unmanned Aircraft Systems in Emergency Management (3)
PAD 4072 Application on Unmanned Aircraft Systems (3)

Elective Courses

PAD 4936 Policy and Implementation of Unmanned Aircraft Systems (3)
PAD 4391 Foundations of Emergency Management (3)
PAD 4395 Disaster Systems (3)
GEO 4162 Geospatial Data and Analysis (3)
GEO 3015 Map Analysis (3)
GIS 4035 Introduction to Remote Sensing (3)
GIS 4043 Geographic Information Systems (3)
GIS 5400 GIS Applications for Social Sciences (3)
URP 3000 Introduction to Planning and Urban Development (3)
URP 4423 Introduction to Environmental Planning and Resource Management (3)

Certificate in U.S. Intelligence Studies

The undergraduate Certificate in U.S. Intelligence Studies gives students in just about any program of study a way to stand out from the crowd and learn real world approaches to solving complicated problems. The concepts and methods are as relevant in business, psychology, and the arts as they are to national security. To earn the Certificate, two required courses and two additional ones selected from within one of the elective groups in the list below must be completed. The undergraduate Certificate in U.S. Intelligence Studies is twelve (12) credit hours total. A grade of "C" or higher must be earned in all certificate courses. Students interested in the Certificate program must apply before the completion of the sixth (6) credit hour, or second course, in the Certificate program.

Required Courses

PAD 4842 U.S. Intelligence Policy (3)
PAD 4841 U.S. Intelligence Analysis and Communication (3)

Elective Group: General

PAD 4843 U.S. Intelligence Community (3)
PAD 4596 The Spy Lit Review (3)
PAD 4890 Homeland Security Policy and Practice (3)
PAD 4831 Global Security and Fusion (3)
PAD 4374 Introduction to Terrorism (3)
PAD 4375 Advanced Topics in Terrorism (3)
PAD 4831 International Conflicts and Terrorism (3)
PAD 4084 International Terror Policy (3)
PAD 4083 Terrorism and Security in Africa (3)
IDS 3358 Making the Argument: Symbolic Logic and the Forms of Good Reasoning (3)
INR 4102 American Foreign Policy (3)
INR 4334 American Defense Policy (3)
SYD 4700 Race and Minority Group Relations (3)
SYD 3530 Social Classes and Inequality (3)
CPO 4057 Political Violence (3)

Elective Group: Regional Specialization in Eastern Europe, the former Soviet Union, and Russia

ECS 4333 Transition of Soviet and Eastern European Economies (3)
GEA 4554 Russia and Southern Eurasia (3)
RUT 3504 Modern Russian Life (3)
CPO 3615 Post-Soviet Politics (3)
RUS 4XXX 4000-level Russian language course (3)

Elective Group: Regional Specialization in the Middle East

ECS 4504 Economics of the Middle East (3)
GEA 4635 Geography of the Middle East (3)

CPO 3403 Comparative Government and Politics: The Middle East (3)
INR 4274 Studies in International Politics: The Middle East (3)
REL 3363 The Islamic Tradition (3)
REL 3367 Islamic Traditions II: Islam up to the Modern World (3)
ARA 4XXX 4000-level Arabic language course (3)

Elective Group: Regional Specialization in East Asia, specifically China

ECS 3200 Economics of Asia (3)
CPO 3520 Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3)
CPO 3541 Politics of China (3)
REL 2350 Religions of East Asia (3)
CHI 4XXX 4000-level Chinese language course (3)

Other regional specializations may be permitted with program director approval. Each admitted student will develop a course of study covering all requirements. This course of study will be approved by the certificate program director or associate director prior to the student beginning coursework. Any changes to the course of study must be approved by the certificate program director or associate director.

Graduate Programs

Graduate study provides professional preparation for careers in government, higher education, private consulting, and nonprofit organizations, and can be pursued in several ways. The school offers two graduate degree programs: the fully-accredited Master of Public Administration (MPA) and the Doctor of Philosophy (PhD) in Public Administration. The MPA program prepares students for professional management and policy roles in a variety of public sector, nonprofit, and international/NGO environments. The doctorate is a research degree designed to prepare students for college and university teaching, advanced research, and advanced administrative practice.

The school also offers joint graduate pathways with the College of Law (MPA/JD), the College of Social Work (MPA/MSW), the College of Criminology and Criminal Justice (MPA/MS), and the Department of Urban and Regional Planning (MPA/MSP). Consult the *Graduate Bulletin* for details of the programs and courses offered.

Public administration courses often serve well as an area of specialization within other degree programs. The study of public administration builds career competencies, enhancing the student's career mobility, flexibility, and opportunities.

Additional information is available on the Askew School's website at *https://coss.fsu.edu/askew/*.

Definition of Prefixes

PAD—Public Administration
POS—Political Science

Undergraduate Courses

PAD 3003. Public Administration in American Society (3). This introductory course in public administration studies the management of large-scale government bureaucracies including organization, career systems, and financing. It also focuses on the role of bureaucracies in modern society in the formalization and implementation of public policy.

PAD 3012. Mayhem Media: Aliens, Zombies, and Human Error (3). This course uses literature and film to analyze examples of emergency and disaster management, assisting students in understanding the complexities of this world through a lens of American media. The course focuses on narrative frameworks and historic significance of both nonfictional and fictional events, examining the setting, characters, plot, and moral framing of the stories presented. The course exhibits nonfiction and fiction literature, podcasts and contemporary film.

PAD 3013. Futures Studies (3). This course applies futures studies perspectives and methods to the study of societal trends and conditions. Emphasis is on the development of anticipatory public policy.

PAD 3931r. Selected Topics in Public Administration (1–6). Topics may vary. May be repeated to a maximum of nine semester hours.

PAD 3941r. Public Service Internship (3–6). (S/U grade only.) Prerequisite: PAD 3003 or equivalent. This course consists of participant observation of the administration of policy in public service organizations. Internship with faculty supervision, on-campus seminars, discussion papers. May be repeated to a maximum of six semester hours.

PAD 4015. Cities at Risk (3). This course uses multiple case studies to examine the state of today's major cities, particularly when it comes to disasters. In big city environments numerous factors can increase the potential for loss of life, property, and environmental resources: unplanned increased population, poor management of industries and manufacturing, increased greenhouse emissions, poor housing conditions, poor building regulations, and poor management of city growth, among many others. All these conditions can converge to create increased consequences in megacities in the developed and developing world. In this course, students explore how rising megacities in developed and developing countries can address their vulnerability and protect their citizens with policy, disaster management, and urban management practices.

PAD 4072. Applications of Unmanned Aircraft Systems (3). Prerequisite: PAD 4075. This course educates students on the applications of UAS in emergency management and other aspects of public management. The course includes flight time with a variety of multi-rotor UAS and provides in-depth discussion and experiences with this technology. Topics include data processing and analysis, crew resource management, and planning of flight operations. This class is offered as a 'weekend intensive'; class meetings happen on three designated weekends throughout the semester.

PAD 4074. Professional Pathways in Emergency Management (1). Prerequisite: PAD 4391. This course explores best practices and theories regarding emotional intelligence, communication, behavior and ethics in professional emergency management. Students gain the knowledge and skills necessary to be successful in a professional emergency management setting.

PAD 4075. Unmanned Aircraft Systems in Emergency Management (3). This course is designed to give students an overview of what UAS can do to support the phases of emergency management (response, recovery, planning, preparedness, and mitigation). The course includes the core concepts and theory behind UAS use, and exposure to regulations, guiding policies, limitations and exclusions.

PAD 4084. International Terrorism Policy (3). Pre- or corequisite: PAD 4374. This course examines international relationships between terrorists and governments in the context of global relations, politics, policy and finance. Terrorism is examined as a global phenomenon in order to understand how new policies are being developed to combat the threat it poses.

PAD 4120. Managing Florida's Government and its Key Policy Issues (3). Prerequisite: Instructor permission required. This course provides students with a basic understanding of the history, organization, and management of government in Florida and key issues facing the state. The course first focuses on the history and structure of Florida government and how it has shaped the Sunshine State. The course next addresses critical issues facing Florida, including public finances, economic development, growth management, criminal justice, environmental protection, and education and social welfare.

PAD 4144. Managing the Nonprofit Organization (3). This course provides an introduction to the central theories of non-profit enterprise, and the implications of various management practices for nonprofit organizations. The course also introduces students to the major aspects of nonprofits and voluntary organizations that distinguish them from public and private organizations – i.e. mission/vision; legal definitions/IRS rulings; voluntary governance structures and a social change agenda.

PAD 4170. Nongovernmental Organizations in Development (3). This survey course is about international development NGOs. The course presents contemporary perspectives about NGOs, describes how NGOs operate, and introduces the challenges that their managers face and potential solutions for them.

PAD 4203r. Financial Management for the Nonprofit Organization (3). This is an introductory online course in nonprofit financial management. Students learn the principles and tools to use in budgeting and accounting for not-for-profit organizations. May be repeated to a maximum of six semester hours.

PAD 4223. Budgets and Finances in Managing Public Affairs (3). This course focuses on concepts and practices in budgeting and financial processes such as planning, goal setting, and implementation.

PAD 4301. Disaster Management Planning for Urban Poor Communities (3). This course discusses the elements that intensify risk where informal and non-permanent settlement housing is prevalent. Government interventions, especially those involving urban planning and policy will be studied and their repercussions to the social, economic and cultural networks of these communities analyzed.

PAD 4372. Leadership and Communication in Emergency Management (3). This course is designed to introduce students to the fundamental concepts, theories, principles, and practices of public information and communication in a risk environment as well as effective leadership principles in an emergency management shared power context.

PAD 4374. Introduction to Terrorism: Preparedness and Response (3). This course introduces students to the fundamental concepts, theories, principles, and practices of terrorism and terrorist events.

PAD 4375r. Advanced Topics in Terrorism (3). Prerequisite: PAD 4374. This course reviews the contemporary evolution of terrorism and the current direction of global terrorism with regards to domestic policies and programs. May be repeated to a maximum of six semester hours.

PAD 4380. Disasters: From Shock to Recovery (3). This course utilizes multiple case studies to examine the complexity of disaster situations in the United States and internationally. The course covers a different disaster case study every week, focusing on event-specific conditions that created/contributed to the disaster, local preparedness, response and recovery in the aftermath of the event.

PAD 4382. Disaster Recovery and Mitigation (3). This course is designed to provide an overview of recovery and mitigation activities in the post-disaster environment. Focusing on the "Recovery Phase" initially, course materials examine the policy and planning mechanisms involved in short and long term rehabilitation of distressed communities. A similar examination from the "Mitigation Phase" is also made.

PAD 4391. Foundations in Emergency Management (3). This course is designed to introduce students to the fundamental concepts, theories, principles, and practices of emergency management.

PAD 4393r. Emergency Management Programs, Planning, and Policy (3). This course examines functional demands that emergency managers should be aware of in crafting emergency management programs. Students investigate how public policy choices impact emergency planning and the consequences of a disaster event. May be repeated to a maximum of six semester hours.

PAD 4395. Disaster Systems (3). Prerequisite: PAD 4391. This course introduces students to the fundamental concepts, theories, principles, and practices of the role of Incident Command (ICS) as an organizational structure, Emergency Operations Centers (EOC) in coordinating response and recovery to crises, and information and knowledge management systems that support disaster management.

PAD 4414. American Public Service (3). This course studies the structure and political role of the civil service, evolution of government employment, current personnel policies, rights and responsibilities of public servants, and labor management relations. The impact of the public service on American society is explored.

PAD 4432. Public Program Evaluation (3). Prerequisite: Approval of the Jim Moran School of Entrepreneurship or instructor permission. This course provides students with a basic understanding of the methods used to analyze public programs and assess their effectiveness. The course discusses the history of evaluation, the different types of evaluative inquiry, key issues in designing and carrying out evaluation studies, and the strategies that are important to promoting use of research findings.

PAD 4433. Women, Disasters, and Conflict (3). This course examines the role of women in disasters. The course also evaluates the role that women play in conflict and peace building. The course covers topics to include gender mainstreaming, LGBTQ issues, UNSCR 1325, gender based violence, and human trafficking.

PAD 4596. The Spy Lit Review: Intelligence in Narration (3). This course explores the Intelligence Community policy and operations through literature and film. Students examine both contemporary and classic novels and films through narration features.

PAD 4603. Administrative Law (3). This course studies the constitutions, statutes, executive orders, and procedures that control the administrative authorities of government. (Also offered by the Department of Political Science.)

PAD 4750. Applied Intelligence Analysis (3). Prerequisite: PAD 4841. This course puts students in the role of analysts in a simulated intelligence requirement. This course combines classroom and online delivery methods to allow students the necessary instruction to complete the semester-long simulation as well as freedom to work collectively and individually as analysts on a product.

PAD 4831. International Conflicts and Terrorism (3). This course introduces students to historical and ongoing conflicts around the world. Students understand how these conflicts have created terrorism and various tools to end both the conflict and the resulting terrorism. Students examine the drivers of conflict such as relative deprivation, dehumanization, and various politics. Students also understand how conflict resolution tools such as Peacekeepers, political revolution/evolution, autonomy/sovereignty, and violence can bring peace and end terrorism.

PAD 4833. International and Comparative Disaster Management (3). This course discusses practical and theoretical issues associated with international disaster management. Risk, hazards, and disasters are addressed from a global perspective with particular emphasis placed on the differences in key issues between developing and developed countries.

PAD 4841. Intelligence Analysis and Communication (3). This course explores the variety of intelligence analysis tools and techniques common to U.S. federal, state, and local agencies, using simulations and activities to understand how raw information is transformed and presented as intelligence. Emphasis is placed on OSINT analysis, but other-source intelligence is included based upon industry needs. Additionally, plain language writing and intelligence presentations is included in learning materials.

PAD 4842. U.S. Intelligence Policy (3). This course is an introduction to the United States Intelligence Community (IC), its significant role within the U.S. government and how intelligence informs and shapes U.S. policy. This course prepares students interested in national security for additional education in intelligence studies, homeland security, and international affairs. Through lecture, assigned readings, classroom discussion, and guest speakers, the course addresses the IC and its preeminent role and effect on U.S. policy both domestically and internationally. Students explore the intersections of the IC with Congress, the DNI, the Executive branch, national security law, finance and intelligence sharing.

PAD 4843. U.S. Intelligence Community (3). This course familiarizes students with the U.S. Intelligence community, the processes and platforms for information/data gathering and analysis, and how the subsequent "intelligence" is used by policy/decision-makers. Throughout the course, students are given opportunities to gather, analyze, and report their findings to case-studies and then compare their conclusions to real-world outcomes. Students gain a broad knowledge of U.S. Intelligence operations and the social, economic, military, and covert actions resulting from Intelligence recommendations.

PAD 4844. Public Health and Emergency Management (3). This course is designed to provide an overview of international public health events that have either evolved into disasters or are born of disasters. In addition, this course looks at preventing and preparing for public health disasters. A variety of threats and case studies are reviewed with an evaluation of future threats. Additionally, epidemiology and the discovery and reporting of events are reviewed.

PAD 4880. Advanced Intelligence Analysis (3). Prerequisite: PAD 4841. This course examines intelligence analysis through case studies of more advanced techniques in structured analysis, where students focus more on developing intelligence products based on these techniques as incorporated in the intelligence process including collection. In this course, critical thinking plays a key role in the readings and work.

PAD 4890. Homeland Security: Policy and Practice (3). This course is designed to introduce students to the concept and application of homeland security policies and their influence on U.S. domestic policy.

PAD 4891. Non-Profits, NGO's and Disaster (3). This course is designed to introduce students to the fundamental concepts, theories, principles, and practices in emergency management relationships with NGO's and non-profit organizations.

PAD 4897. Global Security and Fusion (3). This course examines how the nations of the world unite for a common cause, outlining geo-political and strategic relationships that serve to streamline and facilitate such relationships, the critical importance of U.S. security and intelligence cooperation with our partners and allies, and how our military supports our civilian authorities in a variety of ways toward this end.

PAD 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

PAD 4936r. Special Topics in Public Administration (3). This course explores best practices and theories regarding emotional intelligence, communication, behavior and ethics in professional Emergency Management. At the conclusion of this course, students have the knowledge and skills necessary to be successful in a professional emergency management setting. May be repeated to a maximum of nine semester hours.

POS 4413. The American Presidency (3). This course focuses on the roles of the American president, especially their relationship to government administration. (Also offered by the Department of Political Science.)

Graduate Courses

PAD 5035. Policy Development and Administration (3).
PAD 5041. Public Service Ethics (3).
PAD 5050. The Profession of Public Administration (3).
PAD 5057. Managing the Performance of Public Agencies (3).
PAD 5061. Cities at Risk (3).
PAD 5076. Professional Pathways in Emergency Management (1).
PAD 5078. Applications of Unmanned Aircraft Systems (3).
PAD 5079. Unmanned Aircraft Systems in Emergency Management (3).
PAD 5106. Public Organizations (3).
PAD 5121. Managing Florida Government and Key Policy Issues (3).
PAD 5142. Managing the Nonprofit Organization (3).
PAD 5173. Nongovernmental Organization (3).
PAD 5174. The Independent Sector (3).
PAD 5206. Fundraising and Fund Development (3).
PAD 5208. Budget and Finance in Nonprofit Organizations (3).
PAD 5227. Managing Public Financial Resources (3).
PAD 5327. Public Program Evaluation (3).
PAD 5373. Leadership and Communication in Emergency Management (3).
PAD 5376. Introduction to Terrorism: Preparedness and Response (3).
PAD 5377r. Advanced Topics in Terrorism (3).
PAD 5378. Disaster Systems (3).
PAD 5388. Disaster Recovery and Mitigation (3).
PAD 5389. Disasters: From Shock to Recovery (3).
PAD 5397. Fundamentals of Emergency Management (3).
PAD 5398. Emergency Management Programs, Planning, and Policy (3).
PAD 5417. Human Resource Management (3).
PAD 5475. Women, Disasters, and Conflict (3).
PAD 5599. The Spy Lit Review: Intelligence in Narration (3).
PAD 5700. Research Design in Public Administration (3).
PAD 5701. Quantitative Analysis in Public Administration (3).
PAD 5755. Applied Intelligence Analysis (3).
PAD 5828. The Third Sector: Non-Profits, Non-Governmental Organizations, and Disaster (3).
PAD 5835. International and Comparative Disaster Management (3).
PAD 5836. International and Comparative Administration (3).
PAD 5837. International Terrorism Policy (3).

PAD 5838. Terrorism and Security in Africa (3).
PAD 5839. International Conflicts and Terrorism (3).
PAD 5845. Public Health and Emergency Management (3).
PAD 5848. U.S. Intelligence Community (3).
PAD 5849. U.S. Intelligence Policy (3).
PAD 5859. Managing Public Procurement (3).
PAD 5884. Health Care Management (3).
PAD 5885. Advanced Intelligence Analysis (3).
PAD 5895. Homeland Security; Policy and Practice (3).
PAD 5896. U.S. Intelligence Analysis and Communication (3).
PAD 5898. Global Security and Fusion (3).
PAD 5907r. Directed Individual Study (1–3). (S/U grade only.)
PAD 5935r. Seminar in Public Administration: Selected Topics (1–3).
PAD 5946. Public Service Internship (3). (S/U grade only.)
PAD 6025. Theoretical Perspectives in Public Policy (3).
PAD 6054. Intellectual History and Future of Public Administration (3).
PAD 6102. Administrative Behavior in Public Organizations (3).
PAD 6103. Cultural Analysis and Organizations (3).
PAD 6109. Institutions and Society (3).
PAD 6136. Seminar: Management Studies in Government (3).
PAD 6207. Financial Resources Administration (3).
PAD 6226. Public Budgeting Simulation and Issues (3).
PAD 6300. Governmental Administration in Florida (3).
PAD 6705. Analytic Techniques for Public Administrators (3).
PAD 6707. Logics of Inquiry (3).
PAD 6721. Policy Analysis Research Seminar (3).
PAD 6908. Action Report (3).
PAD 6915r. Supervised Research (1–5). (S/U grade only.)
PAD 6930r. Professional Topics in Public Administration (0). (S/U grade only).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

PUBLIC RELATIONS: see Communication

Undergraduate Program in PUBLIC HEALTH

College of Social Sciences and Public Policy

Website: *http://www.coss.fsu.edu/publichealth/*
Program Director: Dr. Amy Burdette

The Bachelor of Science in Public Health (BSPH) is designed to educate and prepare students in the policy, practice, and methods of public health. The program of study includes training in each of the fundamental areas of public health: epidemiology, environmental health sciences, health policy and management, social and behavioral sciences, and biostatistics. In addition to the core curriculum composed of 21 hours, students will select 12 additional credit hours of public health electives from at least two academic departments. These courses will complement the training provided by core courses by focusing on specific aspects of population health and the healthcare system. The BSPH provides the training required for entry-level public health careers found in non-profit organizations, government agencies, health corporations, and health care facilities.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. The following courses will fulfill the requirement for the Public Health major: CGS 2060 (3), CGS 2100 (3), or BSC 2010L (1).

State of Florida Common Program Prerequisites

The state of Florida has not identified common program prerequisites for this University degree program; however, the faculty in this program strongly recommends that students pursuing a major in Public Health take a 2000-level Statistics (STA) course as part of their lower-division or general education coursework.

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

Requirements for a Bachelor of Science in Public Health

Major Requirements

The major in Public Health requires 33 hours with a grade of "C" or better in each course; at least 21 credit hours must be taken in upper-level (3000 and 4000) courses.

Elective Courses

Twelve (12) hours of coursework from at least two separate departments must be selected from the approved course list. Elective courses must be completed with a grade of "C" or better. To see a list of approved elective courses, visit the undergraduate program page at *http://www.coss.fsu.edu/publichealth/*.

Public Health Course Requirements

All Public Health majors must complete the following seven courses. A grade of "C" or better must be earned in each course.

GIS 4421 GIS and Health (3)
PHC 4030 Introduction to Epidemiology (3)
PHC 4069 Introduction to Biostatistics for Public Health (3)
PHC 4101 Introduction to Public Health (3)
PHC 4157 Health Policy and Society (3)
PHC 4320 Environmental Health Science (3)
PHC 4470 Health Behavior and Health Promotion (3)

Note: Courses in which the student receives a grade below "C" will not be counted toward the major.

Combined Bachelor of Science/Master of Public Health (BS/MPH) Pathway

For the Combined Bachelor of Science/Master of Public Health (BS/MPH) Pathway, Florida State University undergraduate students may apply up to twelve credits of MPH courses taken while enrolled as undergraduates toward

the MPH if they enroll in the Public Health degree program. The combined bachelor's/master's pathway allows academically talented students the opportunity to acquire their MPH degree in a shorter time.

Undergraduate students may take up to 12 hours of graduate level work while completing their bachelor's degree. These hours will count towards both the 120 credit hours needed for the bachelor's and the overall 42 credits hours needed for the master's degree. Admission into the BS/MPH pathway does NOT grant admission into the Master of Public Health Program. This pathway is designed to allow undergraduate students to take graduate level coursework. Students would still need to take the GRE and apply to the MPH program by the appropriate deadlines. Students must meet the following minimum criteria:

- Minimum 3.25 GPA and minimum GRE score between 148 – 160 on the verbal and quantitative portions of the exam OR minimum 3.5 GPA (GRE waived for combined, but still required for graduate school application)
- 90 credit hours of completed coursework
- Two semester (24 hours earned) at FSU
- 1 page paper showing intent and interest in program
- Instructor permission for each course
- Meet with graduate academic program specialist to discuss course availability

Students who believe they are eligible for admission into the combined pathway, and would like to participate will need to contact the Public Health Academic Program Specialist for the application.

Definition of Prefixes

GIS—Geography: Information Science
HSC—Health Sciences
PHC—Public Health Concentration

Undergraduate Courses

GIS 4421. GIS and Health (3). In this course, students use a suite of computer-based tools called geographic information systems to apply geographic theory to public health questions, such as where diseases are located, how places affect our well-being, and what geographic tools can be used to understand global health epidemics. The course is held in a GIS computer lab, where data on health is analyzed and applications in health and medicine are discussed as ongoing challenges in data collection related to issues of surveillance and privacy.

PHC 4030. Introduction to Epidemiology (3). This course is an introduction to epidemiology, i.e., to the study of the description and determinants of disease frequency in human populations. The course focuses on "how we know what we know" about the causes of disease in human populations.

PHC 4069. Introduction to Biostatistics for Public Health (3). Prerequisites: STA 2122, and major status or department permission. This course introduces students to basic concepts of data analysis and statistical inference in medical and health sciences. This course covers key areas of biostatistics, including probability, hypothesis testing, and design and analysis of medical and health studies.

PHC 4101. Introduction to Public Health (3). This course introduces students to key public health concepts, the history of public health, and how the core areas of public health can be integrated to promote health at a population level. The course covers principal areas of public health, including analytic methods, epidemiology, social and behavioral factors, environmental issues, and medical care.

PHC 4157. Health Policy and Society (3). This course introduces students to the major public health concerns currently facing the U.S. population and a variety of policies intended to address them. This course begins with an overview of how the American health care system works and how it compares to other health care systems across the world. Students also examine how issues of race, class, gender, sexuality, and age influence the availability, cost and quality of the health care individuals receive.

PHC 4320. Environmental Health Science (3). This course introduces students to environmental health issues, scientific understanding of causes, and possible future approaches to address major environmental health problems. This course covers key areas of environmental health, including environmental epidemiology, risk assessment, pollution, and education.

PHC 4470. Health Behavior and Health Promotion (3). This course introduces students theoretical perspectives regarding health behavior, health promotion and public health, as well as relevant and contemporary health research. Students are challenged to think critically about health behaviors as well as health policies and politics. Students are encouraged to engage in critical thinking, reading, writing, and discussion regarding all facets of health behavior, health promotion, and public health.

PHC 4935r. Special Topics in Public Health (3). This course focuses on various topics within public health. The purpose of the course is to examine health patterns in the US population and focus on key public health issues. This course may also focus on the health behaviors or issues related to key subpopulations.

PHC 4944. Public Health Internship (3). Prerequisite: PHC 4101. This course provides students with the opportunity to explore their career interests and gain information helpful in the transition from a scholastic environment to the workplace. This internship is conducted under the guidance of an on-site supervisor and internship supervisor, which will provide an opportunity for learning and reflection. Students also develop professional networks useful after graduation and necessary in the job market.

Graduate Courses

HSC 5203. Public Health History, Philosophy and Policy (3).
HSC 5930r. Special Topics in Social Science (1–3).
PHC 5001. Public Health Epidemiology (3).
PHC 5003. Chronic Disease Epidemiology (3).
PHC 5104. Public Health Management (3).
PHC 5300. Environmental Health (3).
PHC 5912r. Public Health Capstone and Research Project (6). (S/U grade only).
PHC 5945. Internship (3). (S/U grade only).
PHC 6002. Infectious Disease Epidemiology (3).
PHC 6110. Comparative Health (3).

Undergraduate Program in PUBLIC SAFETY AND SECURITY

College of Applied Studies

Web Page: *https://pc.fsu.edu/academics/undergraduate-programs/pss*
Program Coordinator: Tom Kelley; **Teaching Faculty III:** Banyon Pelham; **Teaching Faculty II:** Mark Feulner; **Teaching Faculty I:** Charla Perdue

Public Safety and Security combines disciplines within both social science and physical science to address problems presented by criminal behavior. The Public Safety and Security BS degree prepares students to practice within most of the public safety and security professions.

The Public Safety and Security degree integrates practical exercises, both analytic and hands-on, with theoretical principles to provide students with the knowledge, skills, and abilities required by the competencies for law enforcement, security, intelligence, and investigations. The guiding perspective of public safety is as an operational spectrum from prevention to response to investigation, under laid with intelligence, connected by a management information system, all facilitated by an overarching management system. The core and required courses are designed to provide students with an overview of this entire spectrum and also the opportunity to focus on operating within a portion of the system.

An undergraduate degree in Public Safety and Security offers broad preparation for positions in law enforcement, public and private security, Department of Homeland Security agencies, the intelligence services, community and residential corrections, court services, probation and parole, and may serve as a foundation for law school or graduate school.

Advising

Florida State University Panama City provides academic advising to students interested in pursuing coursework in Public Safety and Security. For more information, please contact the Panama City campus Academic Advising and Student Success Center at *advising@pc.fsu.edu* or call 850-770-2288.

Admissions

All students must meet the University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. In order to enroll in the College of Applied Studies, an undergraduate must be certified by the Division of Undergraduate Studies or be a transfer student with fifty-two or more semester hours of accepted credit. World language completion (or exemption) is also required. Under certain circumstances, students may be admitted without these, but will be required to complete both while enrolled in the program in addition to other program requirements. In addition, there are three alternative criteria for admission to the program.

1. Completion of an AA degree from a Florida public college with a minimum cumulative grade point average of 2.0 on a 4.0 scale. The AA degree shall include the completion of the Florida State general education requirements.
2. Transfer students from a regionally accredited postsecondary institution who have sixty or more semester hours of transferable credit. Transfer students must have a minimum grade point average of 2.0. These students must complete the Florida State University general education requirements while enrolled in this program.

Transcripts for students entering with more than the specified hours for the AA will be evaluated for whether any of the hours are applicable to the degree. Hours applicable will be subtracted from the nominal sixty (AA or transfer) required to a maximum of fifteen hours of underclass hours. Transcripts for transfer students will be evaluated in a similar fashion and some upper-level hours may be accepted to a maximum of thirty hours because the last thirty hours must be taken at FSU. Hours not applicable to the Public Safety and Security degree will not be transferred to avoid a possibility of a student incurring an excess hours charge.

Students applying for admission to either the Public Safety and Security programs or the Underwater Crime Scene Investigation Certificate must apply through Florida State University's Panama City Office of Admissions and Records online at *http://pc.fsu.edu/Admissions*.

Academic Performance and Retention

A grade of "C–" or above is required for credit in all core courses. A student who accumulates more than four unsatisfactory grades (U, F, D-, D, D+) in courses taken for college credit at FSU or elsewhere after admission to the program, whether repeated or not, will not be permitted to continue or graduate as a major in the College.

Degree Requirements

General graduation requirements include:

- A minimum cumulative grade point average of 2.0 on a 4.0 scale in all work attempted.
- Completion of the Composition and Mathematics requirements.
- Completion of the Oral Competency, Computer Skills Competency, and Diversity course requirements.
- Satisfaction of the state of Florida's world language requirement. Credit hours required to satisfy this requirement are in addition to the sixty (Post AA) required.
- Completion of at least twenty-seven of the Public Safety and Security credit hours at FSU; completion of forty-five hours at the 3000/4000 level; and, completion of the last thirty hours for the degree at FSU.
- Twelve/thirteen hours in core courses, taken at FSU, and completed with a "C" or better.
- Three hour integrated capstone course.
- Eighteen hours in liberal studies to complete the thirty-six hour general education requirement.
- Thirty-three hours in restricted electives and/or required major courses.
- Twelve hours in a minor or elective hours approved by the College.

Additional graduation requirements will depend on whether the student was admitted as an AA transfer student from a Florida public college, or as a non-Florida AA transfer student.

Credit hours are to be distributed as follows:

- Admitted with an AA from a Florida public college – one hundred twenty total hours are required. The post-AA credit hours are to be distributed as follows:

  Forty-eight credit hours in Public Safety and Security with specific requirements of:
  - Twelve hours in core courses, taken at FSU, and completed with a "C" or better.
  - Thirty-three hours in restricted electives and/or required major courses.
  - Three hour integrated capstone course.
- Admitted as a transfer student – one hundred twenty total hours are required. The remaining hours are to be distributed as follows:

  Forty-eight credit hours in Public Safety and Security with specific requirements of:
  - Twelve hours in core courses, taken at FSU, and completed with a "C" or better.
  - Thirty-three hours in restricted electives and/or required major courses.
  - Three hour integrated capstone course.
- In addition, transfer students must complete FSU's general education requirements, either as part of the twelve hours of unrestricted electives or in addition to them.
- If courses used to satisfy major requirements are used to meet the General Education requirements, no more than four semester hours of the General Education Requirements may also be counted towards the major requirements.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in public safety and security satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

Internships

A variety of internships is available at the local, state, and federal levels. Students can choose from the fields of law enforcement, courts, corrections, criminal justice planning, criminological research, and private sector opportunities. Internships are available for juniors and seniors who have completed the core courses and have satisfied the college-level proficiency skills in reading, writing, and mathematics requirement. The intern receives a satisfactory/unsatisfactory (S/U) grade, and full credit is given upon successful completion of both the academic component and work hours.

Students are advised that information pertaining to all matters of public record, such as arrests and convictions, may be required by the agencies accepting interns. Although a reasonable effort is made to place a student in an

internship, FSU Panama City will not be liable if a student cannot be placed. Students are responsible for all living and transportation expenses during internship experiences.

Certificates

The College of Applied Studies, Public Safety and Security, offers an Underwater Crime Scene Investigation (UCSI) Certificate that may be earned independently or as part of a bachelor's degree. For more information, visit *https://pc.fsu.edu/ucsi-certificate-programs* or contact Mark Feulner by e-mail at *mfeulner@pc.fsu.edu*.

Student Honor Society

Garnet Key Honor Society of the Panama City campus, founded in 1986, recognizes students primarily for service and scholarship, but also for spirit and leadership. Activities are generally service projects and functions for the Panama City campus. Applicants must have completed fifteen semester hours at that campus with a GPA of 3.5 or higher. For more information, contact Cristina Rios by e-mail at *crios@pc.fsu.edu*.

Student Activities

The **Scuba, Hyperbaric, and Recreational Club (SHARC) Dive Club** was established to coordinate and facilitate SCUBA training due to FSU Panama City student interest in scientific and recreational diving. Membership is open to all regardless of certification status. Certified divers that are members have access to club resources such as regulators, dive lights, and buoyancy compensators. For more information, contact Darren DeDario by e-mail at *ddedario@pc.fsu.edu*, contact the FSU Panama City Dive Locker at *(850) 770-2206*, or visit the club's Web site at *https://pc.fsu.edu/students/campus-life/student-organizations/sharc*.

Definition of Prefixes

CCJ—Criminology and Criminal Justice
CJC—Corrections
CJE—Law Enforcement
CJJ—Juvenile Justice
CJL—Law and Process
CPO—Comparative Politics
DSC—Domestic Security
ISC—Interdisciplinary Sciences
SCC—Security

Undergraduate Courses

CCJ 3024. The Criminal Justice System (3). This course provides an advanced overview of principles and practical applications of criminal law, criminal procedure, and criminological theory. Special emphasis is placed on how the components of the criminal justice system (the prosecutorial and defense function, the judiciary, and the field of corrections) are synthesized into a functioning process of public safety and security.

CCJ 3032. Crime in Media (3). This course provides students with an understanding of the impact of the media on crime, criminals, the criminal justice system, and the general public. The focus of this course is the historical impact of media and its influences on the outcomes of both routine and sensational cases within the American criminal justice system and how media reporting affects the policy making processes and the social definitions of crime.

CCJ 3071. Computer Applications in Criminal Justice (3). This course is designed to prepare the student for the use of IT in various professions within the Criminal Justice community. This includes, the fundamentals of computing, the use of data processing, word processing, e-mail, Computer Automated Dispatch, Records Management Systems, use of the Internet and IT Security protocols.

CCJ 3484. Ethics in Policing and Intelligence (3). This course explores ethics for both the criminal justice system and intelligence professionals. It compares and contrasts the differing roles ethics plays in policing and intelligence communities. The course probes significant past and current events to illuminate issues relevant to ethics in intelligence and policing.

CCJ 3612. Behavioral Science in Criminal Justice (3). This course introduces the major issues, influences, and trends considered in the behavioral analysis of criminal and delinquent activity. Course material includes explanation and analysis of theory as it applies to human behavior. A theoretical tool is offered as a method of understanding the interaction of the individual with the environment.

CCJ 3651 Drugs and Crime (3). This course provides students with a broad introduction to both illicit and licit drug usage and their impact on the justice system. Drugs and behavior are examined from various perspectives including historical, criminal justice, sociological, and biological perspectives. Emphasis is placed on analyzing the logic of the discourse surrounding drug policy by the opposing advocates.

CCJ 3661. Terrorism and Violence (3). This course provides a critical examination and analysis of major issues, definitions, and controversies associated with the development of terrorism in the modern world. Historical, religious, psychological, and sociological aspects that explain terrorism are covered, along with the characteristic means and methods of terrorist groups.

CCJ 3678. Policing Diversity: Race, Gender, Religion, and Crime (3). This course provides students with a theoretical and practical foundation for addressing issues of diversity as public safety and security practitioners. Focus is on an analysis of current local, regional, and national demographics regarding the impact of race, ethnicity, gender, and religion in criminal justice as both producers and victims for crime. Students explore some of the various strategies municipalities have implemented to better serve diverse populations such as policies, laws, and procedures.

CCJ 4072. Crime Mapping and Analysis (3). Prerequisites: CCJ 4710. This course is designed to introduce the student to Crime Mapping (coordinate tracking of criminal events and GIS) and Crime Analysis (the statistical evaluation of criminal events and criminal intelligence). Students work with crime data, coordinate data, UCR data and gathered intelligence, to understand correct force deployment and response to crime, for crime-prevention and solvability. They are also introduced to serialized crime identification, recognition and response.

CCJ 4710. Applied Probability for Research and Investigation (3). Prerequisite: CCJ 4744. This course explores how probability and statistics underlie the decisions of researchers and investigators and how to evaluate the expression of probabilistic and statistical information being used to support such decisions. It provides an overview of types of quantitative data products concentrating on their interpretation and application. Techniques for combining multiple forms of evidence to achieve proof are examined.

CCJ 4744. Evidential Reasoning for Research and Investigation (3). This course introduces the formal and informal approaches for making decisions on information that is uncertain and from diverse sources. Techniques are examined for collecting and using both qualitative and quantitative data to draw inferences about public safety and security programs and investigations.

CJC 3311. Corrections: Practices and Perspectives (3). This course introduces the major issues concerning the history, law, practices, and perspectives in American Corrections. Students examine the interaction of correctional perspectives and practices, their consequences, and policies being advocated to change them.

CJE 1760. Foundations of Underwater Investigation (3). This course presents the history, physics, physiology, and basic scientific methodology as they relate to exposure to compressed gas environments and how to deduce safe parameters from those principles. The course provides the theoretical foundation for individuals preparing to be investigators for scientific research and data collection underwater.

CJE 1760L. Foundations of Underwater Investigation Lab (1). Corequisite: CJE 1760. This laboratory course presents the principles and practice of compressed-gas as a life-support system for underwater hyperbaric exposure. The course is designed to develop proficiency in the basic skills required to perform safe underwater investigations including recording observations and conducting underwater environmental surveys.

CJE 3065. Police and Society (3). This course provides an advanced comprehensive overview of the foundations of policing in modern American society. Emphasis is on the functions of law enforcement and its interaction with a democratic society.

CJE 3612. Interview and Interrogation (3). This course introduces students to the dynamics of conducting interviews and interrogations from both a theoretical and practical perspective. Emphasis is on both collecting reliable information by means of interviewing and interrogation for use in public safety and security investigations and on evaluating that reliability through a scientific approach.

CJE 3617. Cold Case Investigations (3). This course provides an introduction to the model and methodology of investigation of cold cases.

CJE 3648. Crime Scene Professionalism (3). This course emphasizes that qualities that mark a true professional in the field of crime scene investigation. The course covers crime scene safety, chain of custody, ethics, impartiality, the manipulation, and mishandling or misinterpreting of evidence. There is a focus on preventing contamination, report writing, and courtroom reputation and presentation.

CJE 3732. Criminal Intelligence (3). This course focuses on the production of intelligence from the analysis of multiple and diverse sources of information and on its use by formal and informal intelligence agencies. Emphasis is placed on the role of local public safety and security personnel and organizations as both producers and consumers of intelligence and on their relationship to the formal intelligence agencies.

CJE 3762. Forensic Science in Investigations (3). This course combines various theories of crime with knowledge of how physical evidence produced during the commission of a crime yields scientific data that enables forensic science to aid in the investigation and prosecution of criminal activity.

CJE 3762L. Forensic Science in Investigations Laboratory (1). Pre- or corequisite: CJE 3762 (C- or better). This laboratory applies various techniques for the examination of physical materials generated during the commission of a crime in order to produce information required to detect and investigate criminal activity. This virtual and hands-on laboratory emphasizes the implementation of scientific protocols for collection and analysis of evidence and the calculation of associated error rates.

CJE 4135. Impression and Pattern Evidence (2). Pre- or corequisites: CJE 3762 and CJE 3762L. In this course, students are introduced to the concepts of identification and individualization employed in forensic science. In the course, students learn how to use class characteristics, wear characteristics, and individualizing characteristics in the identification and individualization process.

CJE 4135L. Impression and Pattern Evidence Lab (2). Prerequisites: CJE 3762 and CJE 3762L. Corequisite: CJE 4135. This course teaches forensic techniques used by crime scene professionals to detect, document and preserve various impression and pattern evidence commonly encountered in violent crimes. Students become familiar with the forensic application and collection of evidence, as well as documentation protocols.

CJE 4220. Introduction to Forensic Entomology (3). This course provides an introductory overview for the field of forensic entomology and prepares the student for subsequent courses in forensic entomology that focus on insect taxonomy, field collection, and case analysis. The course covers a broad range of topics in basic entomology as related to forensic science.

CJE 4221. Forensic Entomology: Field Collection Techniques (3). Prerequisite: CJE 4220. This course introduces students to entomological equipment, supplies, techniques and procedures utilized to collect, rear, and preserve insects and related arthropods of medicocriminal forensic importance. The course also covers equipment and methods for acquiring weather, climatological and other relevant data.

CJE 4222. Forensic Entomology: Case Studies and Legalities (3). Prerequisite: CJE 4220. This course addresses the legal and courtroom aspects of medicolegal entomology. The course prepares students to present entomological evidence in a court of law, in an admissible manner using expert witness testimony. This course, through case study reviews, explores the importance of establishing a "chain of custody" and pitfalls with presenting evidence.

CJE 4223. Forensic Entomology: Taxonomy and Post Mortem Interval (3). Prerequisite: CJE 4220. This course addresses the principles of insect identification and basic insect taxonomy. Students are responsible for the species level identification on specimens they collect from the field. Students analyze meteorological and mock crime scene temperature data and independently calculate estimates of the postmortem interval. Students utilize dichotomous keys, light microscopy, and entomological equipment for proper specimen preservation and identification.

CJE 4241. Trace and Biometric Evidence (1). Prerequisites: CJE 3762 and CJE 3762L. This course teaches the properties of trace evidence that are most useful in forensic comparison. It also covers biometric identification through biological characteristics that can be used for recognition.

CJE 4241L. Trace and Biometric Evidence Lab (2). Prerequisites: CJE 3762 and CJE 3762L. Corequisite: CJE 4241.This course teaches microscopy as it relates to trace evidence and the different types of trace evidence and the techniques used to recover, store and analyze the evidence using various techniques like microanalysis, gas chromatography and mass spectrometry. It also looks at the quickly evolving area of biometrics and how computer software is used to make identifications in areas like fingerprints and facial recognition.

CJE 4410. Community Policing (3). This course introduces students to the dynamics of community policing from both a theoretical and practical perspective. Emphasis is on both understanding the origins of community policing and practical application through the use of problem solving and partnership strategies.

CJE 4611. Criminal Investigation: Theory and Practice (3). Prerequisite: CCJ 4710. This course gives the student an opportunity to explore and understand investigative facets of law enforcement service delivery. The students focus on the historical relevance of the investigative process, the evolution of investigation, the procedural guidelines for effective investigations, and the mechanics of the modern day investigative process.

CJE 4615. Conduct of Investigation (3). Prerequisite: CJE 4611 (C- or better). This course builds on the Criminal Investigations: Theory and Practice course to provide students the practice in applying investigative procedures within legal constraints; the use of specialized documentation and analyses required in the investigation of injury and death, crimes against persons and property; and the combination of evidence from crime scenes, medical-legal examinations, records, and interviews to produce legal proof and articulate its reliability.

CJE 4638. Forensic Death Investigation (2). Prerequisites: CJE 3762 and CJE 3762L. Corequisite: CJE 4638L. This course focuses on the investigation used to determine the cause, manner, and mechanism of deaths under criminal, unusual, or unexpected circumstances and presents on overview of medico-legal investigative systems.

CJE 4638L. Forensic Death Investigation Lab (2). Prerequisites: CJE 3762 and CJE 3762L. Corequisite: CJE 4638. This advanced course focuses on all aspects of the initial investigation on sudden and violent death scenes to include special procedures and techniques to be evaluated in a major crime investigation. The course introduces the procedures and technologies used to document the different modes of death. Students perform various documentation protocols with the forensic application and collection of evidence.

CJE 4655. Crime and Accident Scene Imaging and Reconstruction (1). Pre- or corequisites: CJE 3762 and CJE 3762L. This course teaches the various theoretical principles used by crime scene professionals to recreate accurate representations of a crime or accident scene for future use in investigation or for court purposes. Students become familiar with the collection of scientific data, expressing measurement, and interpretation of data.

CJE 4655L. Crime and Accident Scene Imaging and Reconstruction Lab (2). Corequisite: CJE 4665. This course teaches the various operational procedures used by crime scene professionals to document and recreate accurate representations of a crime or accident scene for future use in investigations or courtroom presentations. Since agencies vary greatly in their access to technology, this course introduces many different techniques, systems and software used to document, map and measure crime scenes. Students will perform the operations required to gather and collect the information needed to properly appraise the scene.

CJE 4710r. Public Safety and Security Capstone (3–15). Prerequisite: CCJ 4744. This course focuses on the integration of knowledge, skills, and capabilities learned in the program through a capstone project through working with a Public Safety and Security Agency or Guided Research.

CJE 4733. The Intelligence Process (3). Prerequisites: CJE 3732 and MAC 1105. Corequisites: CCJ 4710; and STA 2023; or STA 2122. This course covers a number of structured analytic techniques that provide an objective approach to conducting the intelligence process. The techniques presented in this course are used to process all-source intelligence which is applicable to law enforcement intelligence, counterterrorism, tactical military, and competitive intelligence analysis.

CJE 4734. Intelligence Collection Strategies (3). Prerequisites: CJE 3732 and STA 2023. This course examines the formal intelligence collection process with emphases on Open Source and Human Intelligence. Students become familiar with the process, developing comprehensive strategies for the production of intelligence by satisfying levied requirements using a variety of intelligence sources available to local public safety and security personnel.

CJE 4764. Underwater Crime Scene Methodology (3). Prerequisites: CJE 4762 and CJE 4763. This course synthesizes the various theories for the conduct of crime with the knowledge of how physical evidence is produced during the commission of a crime on or under the water in order to produce information that enables the investigation and prosecution of criminal activity.

CJE 4764L. Underwater Crime Scene Methodology Laboratory (1). Prerequisites: CJE 4762 and CJE 4763. Corequisite: CJE 4764. This laboratory applies various techniques for the examination of physical materials generated during the commission of a crime on or under the water in order to produce information that enables the investigation and prosecution of criminal activity. Additional equipment fee required.

CJE 4765. Underwater Crime Scene Investigation (3). Prerequisite: CJE 4764. This course combines the various analytical underwater examinations into a holistic investigation process designed to locate and detect persons and physical evidence involved in, or victims of, crimes in or on the water. Emphasis is placed on the theory of the technology and the scientific decision-making required for its optimum application.

CJE 4765L. Underwater Crime Scene Investigation Laboratory (1). Prerequisite: CJE 4764L. Corequisite: CJE 4765. This laboratory course applies methodology based on advanced technology to enhance the location and detection of physical evidence used, or intended for use, in the commission of underwater crimes. Emphasis is placed on the use of the Incident Command System and the UCSI Process for management of a crime scene investigation. Additional equipment fee required.

CJJ 3013. Youth Culture and Crime (3). This course explores the unique characteristics of juvenile offending and victimization by examining the cultural traits that differentiate youths from society in general. In doing so, the class investigates various distinct subcultures globally and the relationship between specific forms of offending and subcultural traits.

CJL 3133. Evidence and Criminal Procedure (3). This course covers the structures and functions of state and federal court systems with emphasis on the specific roles and duties of the participants in criminal trials. Special emphasis is placed on the rules of evidence applicable in criminal cases and the consequences of not having or not following those rules. Examination and analysis of actual appellate court cases utilizing the law school technique of case briefing will be used as a basis for applying the concepts studied.

DSC 3013. Homeland Security and Criminal Justice (3). This is an introductory course covering the relationship of homeland security and criminal justice agencies as it impacts public safety and security. Students are introduced to salient issues regarding the interconnection of the homeland security mission and the roles of criminal justice agencies at the local, state, and federal levels in dealing with both terrorist threats and with natural and man-made disasters.

ISC 3062. Introduction to Underwater Investigation (3). This course presents the history, physics, physiology, and basic scientific methodology relate to operating in hyperbaric environments. This course incorporates an exploration of the tools and methods for safely conducting dive activities based on those principles as well as the techniques for mitigating the associated risks. This course provides the theoretical foundation for individuals preparing to be investigators for scientific research and evidence/data collection under water.

ISC 3062L. Introduction to Underwater Investigation Laboratory (1). Corequisite: ISC 3062. This laboratory course presents the principles and practice of compressed-gas as a life-support system for underwater hyperbaric exposure. This course is designed to develop proficiency in the basic skills required to perform safe underwater investigations, including recording observations and conducting underwater environmental surveys.

ISC 3063. Scientific Underwater Investigation (3). Prerequisite: ISC 3062. This course builds upon the Introduction to Underwater Investigation course by providing the advance knowledge and techniques used to perform examinations in underwater environments following the scientific method. The course provides a theoretical and practical foundation for conducting scientific research and data collection in underwater environments.

ISC 3063L. Scientific Underwater Investigation Laboratory (1). Prerequisite: ISC 3062, ISC 3062L, and completion of a swim fitness test, an AAUS medical evaluation with subsequent review by the ASDP Diving Medical Officer, and any additional tests as necessary. Corerequisite: ISC 3063. This laboratory applies the scientific principles and techniques used to collect data in an underwater environment for the purpose of scientific research. Due to the particular challenges of working underwater, the lab incorporates the advanced skills used for prolonged hyperbaric exposures in challenging environments. These skills are taught concurrently with those of an underwater investigator, and the course is designed to develop proficiency in both so that the underwater research techniques common to the practice of underwater science disciplines may be practiced safely.

ISC 4930r. Special Topics in Applied Studies (1–3). This course allows for special topics in Interdisciplinary Studies to be taught, focusing on Applied Methods and Theory, specific to the concept of Applied Studies and Science, Technology, Engineering and Mathematics. May be repeated to a maximum of twelve semester hours.

Graduate Courses

CCJ 5079. Managing Intelligence Analysis Functions (3).
CCJ 5616. Profiling Criminal Behavior (3).
CCJ 5748. Advanced Evidentiary Reasoning for Criminal Intelligence (3).
CJE 5225. Introduction to Forensic Entomology (3).
CJE 5226. Forensic Entomology Field Collection Techniques (3).
CJE 5227. Forensic Entomology: Case Studies and Legalities (3).
CJE 5228. Forensic Entomology: Taxonomy and Post Mortem Interval (3).
CJE 5631. Financial Intelligence (3).
CJE 5715. Capstone Project (3).
CJE 5735. International Crime and Terrorism (3).
CJE 5737. Law Enforcement Intelligence (3).
CJE 5739. Research Methods for Law Enforcement Intelligence (3).
CJE 5743. Introduction to Public Safety and Leadership (3).
CJE 5744. Strategic Planning in Public Safety and Leadership (3).
CJE 5745. Use of Force in Public Safety and Security (3).
CJE 5768. Underwater Crime Scene Methodology (3).
CJE 5768L. Underwater Crime Scene Methodology Laboratory (1).
CJE 5769. Underwater Crime Scene Investigation (3).
CJE 5769L. Underwater Crime Scene Investigation Laboratory (1).
CPO 5429. Political Islam: Ideology or Religion (3).
DSC 5595. Human Intelligence Collection (3).
ISC 5060. Introduction to Underwater Investigations (3).
ISC 5060L. Introduction to Underwater Investigations (1).
ISC 5061. Scientific Underwater Investigation (3).
ISC 5067L. Scientific Underwater Investigation Laboratory (1).
ISC 5930r. Special Topics in Applied Studies (3).
SCC 5406. Market and Competitive Intelligence (3).

PURCHASING/MATERIALS MANAGEMENT:
see Management Information Systems

RADIO/TELEVISION:
see Communication

READING EDUCATION AND LANGUAGE ARTS:
see Childhood Education, Reading, and Disability Services; Middle and Secondary Education

REAL ESTATE:
see Risk Management/Insurance and Real Estate and Legal Studies

Undergraduate Program in RECREATION, TOURISM AND EVENTS

College of Applied Studies

Web Page: *http://pc.fsu.edu/Academics/Undergraduate-Programs/Recreation-Tourism-Events*
Program Coordinator: John Crossley; **Teaching Faculty III:** Prince; **Teaching Faculty II:** Trafford

The Recreation, Tourism and Events program offers courses leading to the Bachelor of Science (BS) degree in Recreation, Tourism and Events. The degree is designed to prepare individuals for professional positions in such settings as special events management, resort and commercial recreation, corporate and employee recreation, public parks and recreation, youth-serving and military agencies, campus recreation, and travel and tourism. With a bachelor's degree from this program, students may qualify for employment as event and recreation program supervisors/managers/coordinators, facility managers, adult and youth sports supervisors, activities directors, special events coordinators, tourism services managers, and guest service coordinators. For more information, contact the Program Coordinator, Dr. John Crossley, by e-mail at *jcrossley@pc.fsu.edu* or by phone at *(850) 770-2239*. The Recreation Tourism and Events program offers its full degree program at both the Tallahassee campus and the Panama City campus.

Advising

Florida State University provides academic advising to students interested in pursuing coursework in the College of Applied Studies. For students who want to take courses on the Tallahassee campus, contact Donna Trafford by email at *dtrafford@fsu.edu*, or by phone at 850-645-9774 . For students who want to take classes on the Panama City campus, contact the Academic Advising & Student Success Center by e-mail at *advising@pc.fsu.edu* or by phone at (850) 770-2288.

Degree Requirements

To earn a bachelor's degree in Recreation, Tourism and Events, students must successfully complete the following: (1) twenty-eight semester hours of required coursework: LEI 3004, 3312, 3420, 3435, 3843, 4524, 4551, 4602, 4881, 4930; (2) two semester hours of fieldwork: LEI 4921r; (3) fifteen semester hours of internship: LEI 4940r; and (4) fifteen semester hours of approved specialization coursework. Students must be certified in First Aid/CPR prior to enrolling in LEI 4940.

To be eligible for the internship, which is scheduled the last semester of the program of study, students must have earned a 2.25 cumulative GPA in all college coursework and a 2.25 GPA in all core courses bearing the prefix LEI. A minimum grade of "C–" or better must be earned in all program coursework.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in recreation, tourism and events satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100 or equivalent. LEI 4864 is also approved to satisfy this requirement by earning a grade of "C" or higher.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Recreation, Tourism and Events – Professional

1. CGS X060 or CGS X100

Requirements for a Minor in Recreation, Tourism and Events

A minor in Recreation, Tourism and Events requires twelve hours of coursework. The minor consists of LEI 3004 and any three of the following courses: LEI 3266, LEI 3312, LEI 3420, LEI 3435, LEI 3843, LEI 4314, LEI 4524, LEI 4561, LEI 4864. A grade of "C–" or better must be earned in each course counted toward the minor.

Certificates

The College of Applied Studies offers an undergraduate Certificate in Special Events which consists of LEI 3312, LEI 4314, LEI 4561, and LEI 4864. The student must earn a "C" or higher in each of the four courses taken for credit and maintain a 2.5 (C+) grade point average or higher in the four courses for the certificate to be granted. For more information, contact the Certificate Coordinator, Rosemary Prince, by e-mail at *rprince@fsu.edu* or visit *http://pc.fsu.edu/academics/undergraduate-programs/undergraduate-certificate-special-events*.

University Honors and Honor Societies

The College of Applied Studies encourages eligible students to participate in university honors and in the honors in the major program. For a list of University-wide honor societies officially recognized by Florida State University, requirements, and other information, see the "University Honors Office and Honor Societies" chapter of the *General Bulletin*.

Definition of Prefixes

LEI—Leisure

Courses for Recreation, Tourism and Events Majors

LEI 1181. Leisure and Recreation Adaptations for All Ages and Abilities (3). This course introduces students to the concepts of leisure and recreation for people of varying abilities. Students review best practices for inclusion in facilities and programs. This course is interactive, with student participation through simulations, group discussions, presentations, and opportunities for personal reflection.

LEI 1264. Backpacking (1). (S/U grade only.) This is an introductory course designed to prepare participants for backpacking in low-level terrain in a safe and environmentally sound manner. The course covers equipment, clothing, food preparation, route selection, safety and risk management, environmental practices, and "no trace" camping.

LEI 1267. Canoeing/Kayaking (1). (S/U grade only.) This course is designed to give students an applicable knowledge of the sport/activity of canoeing and kayaking, as well as develop students' physical and mental ability to learn and execute canoeing and kayaking skills. This is a beginner flat water and Class 1 level canoe course.

LEI 1269. Rock Climbing (1). (S/U grade only.) This is a basic rock-climbing class. The material covered is for students with little or no experience or knowledge of rock climbing. This class is experiential in nature; therefore, being present and active in class is necessary. Skills may include but are not limited to knot-tying, belaying, bouldering, safety concerns, route reading, and technique.

LEI 2318. Events: Love Them, Then Leave Them. What's My Footprint? (3). This course provides an overview of ethics and corporate social responsibility in the meetings, conventions, and events industry. Students evaluate the application of ethical practices in the meeting and events industry. The correlation between ethical behavior and corporate social responsibility is also analyzed. Students learn to identify and determine when sustainability related practices are applied to meetings, conventions, and events.

LEI 3004r. Introduction to Recreation, Tourism, and Events (3). This course provides an introduction to the nature and diversity of recreation pursuits and the social and cultural forces that influence leisure related choices. Students examine the various ways in which recreation is organized for delivery by professionals working in the recreation and event industry. Career opportunities in recreation, park, and event management are explored. May be repeated to a maximum of nine (9) credit hours.

LEI 3265r. Challenge Course Facilitation Training (1–4). This course provides the student with the knowledge and skills to lead new games and field games and to facilitate group initiatives, and low ropes and high ropes challenge courses. The student learns to facilitate diverse groups to develop teamwork, and leadership skills, improve group dynamics, increase trust and improve communication, and direct a wide variety of challenge course activities. The course stresses safety, particularly in the use of ropes course apparatus, equipment, sequencing, and processing. The challenge-by-choice philosophy is followed throughout. This course comprises four separate components, which must be taken in sequence but may be taken in subsequent semesters.

LEI 3266. Outdoor Adventure Education (3). This course provides education in teaching leadership and programming skills for outdoor adventures through observation, direct participation and skills demonstration.

LEI 3312. Introduction to Special Events (3). This course introduces students to special event planning and prepares them to design and implement a variety of special events for leisure, recreation, and park organizations, community organizations, non-profit agencies, associations, corporations, and other organizations.

LEI 3420. Recreation Activities Leadership (3). This course includes selection, development, and understanding of recreation activities and how specific activities meet the needs of individuals. This course develops leadership skills and the ability to plan and lead activities appropriate to age, interest, ability, and culture.

LEI 3435. Planning Recreation Experiences (3). This course is designed to facilitate the understanding of principles and methods of recreation program design and operation. Students apply goal and objective technology, and development and sequencing of activities in creating a program design within the recreation, tourism and event field.

LEI 3701. Human Development and Functioning in Leisure (4). This course examines the role of human development and functioning for the entire age spectrum, including disabilities.

LEI 3843. Commercial Recreation and Tourism (3). This course is designed to introduce the concepts, principles, and practices of commercial recreation and tourism.

LEI 4313. Special Event Resource Development and Fundraising (3). This course supplies students with an understanding of the methods for obtaining and managing the resources required for the operation of special events, including fundraising activities and volunteers.

LEI 4314. Event Operations and Management (3). This is an advanced course in event planning and operations that provide students the opportunity to apply skills and concepts needed to plan and produce successful events. Focus is placed on managerial aspects of events such as financing, economic impact, and legal issues involved with events.

LEI 4524. Leadership and Supervision in Recreation, Tourism and Events (3). Prerequisite: LEI 3004. This course introduces the concepts, principles, and best practices for leading and supervising employees of recreation, sport, and leisure service organizations.

LEI 4551. Administration of Recreation, Tourism, and Event Organizations (3). In this course, students learn the skills needed for the administration of recreation, tourism, and event services providers, including legal foundations, contracts, risk management, revenue sources, budgeting, and financial management.

LEI 4561. Special Event Promotions (3). This course presents students with an overview of standard event promotional techniques including online marketing strategies.

LEI 4602. Planning and Maintenance of Facilities in Leisure Systems (3). This course provides basic information for the planning and maintenance of leisure areas and facilities.

LEI 4864. Technology for Events (3). This course introduces the student to the variety of ways computer applications and other technologies are used in planning, design, marketing, and evaluation of events.

LEI 4881. Assessment, Research, and Evaluation in Recreation, Tourism, and Events (3). Prerequisite: LEI 3435. This course enables students to assess, research, and evaluate the functions, participant interests, and behaviors in recreation, tourism and event organizations.

LEI 4906r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

LEI 4921r. Fieldwork in Recreation, Tourism and Events (1–3). (S/U grade only.) Prerequisites: LEI 3004 or 3420. This course is designed to provide the student with an opportunity to gain practical experience by working in an organized recreation, parks, tourism or special event agency. May be repeated to a maximum of six (6) credit hours.

LEI 4930. Senior Seminar in Recreation, Tourism, and Events (1). Pre- or corequisites: LEI 4551, LEI 4602, and LEI 4881. This seminar introduces current trends, issues and problems facing the recreation, tourism and events industry, and guides students' professional development as they seek their senior internship and career.

LEI 4932r. Special Topics in Leisure Services (3). In this course, current topics in leisure services are studied in depth. May be repeated to a maximum of nine semester hours.

LEI 4940. Internship in Recreation, Tourism and Events (15). Prerequisite: LEI 4930. This course is a full-time experience in a recreation, tourism, and events organization under the supervision of a professional in that field. May be repeated to a maximum of thirty semester hours. May be repeated within the same term.

Graduate Courses

LEI 5185. Current Issues in Leisure (1).
LEI 5316. Event Planning Management (3).
LEI 5317. Event Management Issues in Ethics and Risk Management (3).
LEI 5530. Problems of Staff Development (3).
LEI 5555. Analysis and Management of Leisure Systems (3).
LEI 5563. Event Marketing (3).
LEI 5576. Fiscal Policy and Management of Leisure Systems (3).
LEI 5815. Leisure Education (3).
LEI 5889. Research in Leisure Services (3).
LEI 5908r. Directed Individual Study (1–3).

LEI 5915r. Supervised Research (1–4). (S/U grade only.)
LEI 5930r. Special Topics in Recreation and Leisure (1–3).
LEI 5941. Practicum in Leisure Services (9).
LEI 5942. Practicum in Events Management (3).
LEI 5944r. Fieldwork in Leisure Services (1–3).
LEI 5945r. Supervised Teaching (1–5). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

REHABILITATION SERVICES:
see Childhood Education, Reading, and Disability Services

Undergraduate Department of RELIGION

College of Arts and Sciences

Website: *http://religion.fsu.edu/*
Chair: Aline Kalbian; **Professors:** Corrigan, Cuevas, Dupuigrenet, Gaiser, Goff, Kalbian, Kavka, Kelsay, Twiss; **Associate Professors:** Day, Hellweg, Kelley, Levenson, McVicar, Yu; **Assistant Professors:** Buhrman, Cecil, Drake, Hazard, McTighe; **Assistant Teaching Professor:** Durdin; **Professors Emeriti:** Moore, Porterfield, Rubenstein, Sandon, Spivey

Since its founding in 1965, the Department of Religion at Florida State University has been a leader among America's public institutions in the academic study of religion. The courses offered by the department examine the diverse array of religious cultures around the globe from historical, ethical, philosophical, cultural, and social perspectives. In addition, the department offers students, if they desire, the opportunity to study the languages relevant to religious traditions, with regular introductory and advanced classes in biblical Hebrew, Sanskrit, Tibetan, and New Testament Greek, as well as advanced classes in Aramaic, Coptic, Syriac, and Classical Arabic.

Located in the humanities area of the College of Arts and Sciences, the department participates actively in the University's *Liberal Studies for the 21st Century* program. A number of religion courses are approved for humanities credit in liberal studies and for literature and diversity requirements. The department is committed to offering several liberal studies honors courses and honors augmented courses each semester. Members of the department regularly teach in the Bryan Hall living and learning community. Our students are encouraged to take advantage of the University's international programs, especially those in London and Florence.

A concentration in religion provides the opportunity to acquire a broad liberal arts education. Inside the classroom, the department emphasizes clear and critical thinking and excellence in writing and speaking, whether the class has to do with religious history, ethical thought, philosophical analysis, or cultural studies. In addition, the curriculum of the major leads students to broaden their horizons and think about the complexity of the diverse and globalized world in which we live, a world in which religion plays an increasingly central role. These skills have benefited our graduates in the various fields they have gone on to pursue, ranging across education, the health professions, journalism, law, business, politics, and social work.

The department is housed in Dodd Hall. The facilities of the department include a small library of standard reference works for the use of religion students.

College Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in religion satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

State of Florida Common Program Prerequisites

No statewide common program prerequisites have been identified for this program; however, the faculty in this program recommends that students take several lower level religion courses with the REL prefix.

Degree in Religion – Major Requirements

To complete a Bachelor of Arts (BA) degree with a major in religion, a student must complete (in addition to other college requirements) thirty semester hours of religion courses structured in the following manner:

- At least three semester hours in each of the three areas: Western, Asian or African, Issues and Approaches. For purposes of the major requirement, religion courses are categorized as follows:

  Western: REL 2121, 2210, 2240, 3128r, 3209, 3224, 3293r, 3363, 3367, 3430, 3505, 3607, 4203r, 4214, 4215, 4290r, 4324r, 4366, 4393, 4510, 4511, 4613, 4914r; IDS 2420

  Asian or African: REL 2315, 2350, 3333, 3337, 3340, 3345, 3358, 3370, 4335, 4357r, 4359r, 4912r; IDS 3466

  Issues and Approaches: REL 3112, 3142, 3145, 3152, 3160, 3170, 3171r, 3180, 3194, 3345, 3431; IDS 3197, 3392, 3671; PHI 3700,

Note: Either REL 3194 or IDS 3197 (but not both) may be counted toward the major.

Note: The areas in which REL 3936r, 4190r, 4304r, 4491r, 4905r, and 4932r fall depend on the topic. Students should inquire at the department office or consult with the departmental undergraduate advisors for a current list of all courses and their areas.

- At least eighteen semester hours at the 3000/4000 level
- REL 4044, which can only be taken after successful completion of at least twelve hours of coursework in the department
- At least one religion course with a seminar format (either a course listed as a seminar or one approved as such by the department)
- An exit interview or survey

Note: Courses in which the student receives a grade below "C–" will not be counted toward the major.

Minor

The religion major requires the completion of a minor in another department or program. Check the appropriate department for minor requirements.

Honors in the Major

The Department of Religion offers an honors program in religion to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Joint Major in Religion and Classics

The Departments of Religion and Classics cooperate in a joint major designed for students with a special interest in religion in the ancient world. Students interested in this program should discuss it with the undergraduate director of either department.

Cooperation with Other Programs and Departments

Because religion touches upon many facets of human life, the study of religion is inherently interdisciplinary. The department therefore participates in a number of interdepartmental programs, including the following: American Studies, Asian Studies, African American Studies, History and Philosophy of Science, Humanities, Middle Eastern Studies, and Women's Studies. In addition, students of religion will find related courses in other departments, including Anthropology, Art History, Classics, English, History, Philosophy, and Sociology. Students undertaking a major or minor in religion should discuss such courses with the undergraduate advisor in religion.

Minor in Religion

Students majoring in other disciplines and wishing to minor in religion must take a minimum of twelve semester hours in the religion curriculum. At least six semester hours of credit must be earned in courses at the 3000 level or higher. Courses in which the student receives a grade below "C–" will not be counted toward the minor.

Minor in Jewish Studies

Advisor: Martin Kavka (Department of Religion)

The Jewish studies minor is concerned with the diversity and complexity of Jewish religious and cultural expression from the time of the Bible to the present day. The minor is interdisciplinary, allowing students to take classes with faculty in various departments at FSU (including but not limited to the departments of religion, history, modern languages, and political science) and to begin to deepen their knowledge of Biblical and/or Modern Hebrew.

Requirements for Jewish Studies Minor

The minor consists of fifteen semester hours, including two semesters of Biblical or Modern Hebrew, or of another Jewish language approved by the advisor for the minor, unless equivalent competence is demonstrated. Courses fulfilling the minor requirements can be comprised of any of the core courses listed below, and any additional courses approved by the advisor for the minor. No more than eight semester hours of 1000-level or 2000-level language courses may be counted toward the minor, and no language courses taken toward the minor may be used to fulfill any University language requirement. Each semester, additional courses will count as core classes (Examples: REL 3293 - Topics in Biblical Studies, REL 4290 - Undergraduate Biblical Studies Seminar, or HIS 4935 - Senior Seminar). To receive a list of such courses, or request that a course count as a core course for the minor, please contact the advisor for the minor.

Students may count toward the minor three semester hours of courses with significant, yet not majority, Jewish-studies content (Examples: ASH 4223 - Modern Middle East, EUH 4465 - Weimar and Nazi Germany, or FOW 4930 - Transnational Literature). Note that either REL 3194 or IDS 3197 may count towards the minor, but not both. Students who are not applying any language classes to the minor may count six semester hours of such classes toward the minor. To receive a list of such courses for a given semester, or to request that a course count in this category, please contact the advisor for the minor.

History:

EUH 4241 The Holocaust In Historical Perspective (3)

Modern Languages:

HBR 1120 Elementary Modern Hebrew I (4)
HBR 1121 Elementary Modern Hebrew II (4)
HBR 2220 Intermediate Modern Hebrew (4)
IDS 3188 German Society Through Film: The Legacy of Nazi Crimes Against Humanity (3)

Political Science:

INR 4272 Studies in International Politics: The Middle East (3)

Religion:

HBR 1102 Beginning Hebrew I (4)
HBR 1103 Beginning Hebrew II (4)
HBR 2222 Intermediate Hebrew (4)
IDS 3197 Responses to the Holocaust (3)
REL 2210 Introduction to the Old Testament (3)
REL 3194 The Holocaust (3)
REL 3209 The Dead Sea Scrolls (3)
REL 3224 The Hebrew Prophets (3)
REL 3607 The Jewish Tradition (3)
REL 4203 Readings in Classical Hebrew Texts (1–3)
REL 4212 The Book of Genesis: Literary and Historical Approaches (3)
REL 4215 Judaism in the Greco-Roman World (3)
REL 4613 Modern Judaism (3)

Definition of Prefixes

GRW—Classical Greek Literature (Writings)
HBR—Modern Hebrew Language
HPS—History and Philosophy of Science
IDS—Interdisciplinary Studies
PHI—Philosophy
REL—Religion: Undergraduate
RLG—Religion: Graduate
SRK—Sanskrit Language

Undergraduate Courses

GRW 3250r. New Testament Greek (3). Prerequisite: GRE 2220 or completion of twelve-hour foreign language sequence in Greek. This course offers an introduction to reading the New Testament in Greek; it involves a comparison of New Testament Greek to Attic Greek grammar, as well as an introduction to New Testament scholarship. May be repeated to a maximum of six semester hours provided texts change.

HBR 1102. Beginning Hebrew I (4). This course is an introduction to the basic grammar, syntax, and phonology of modern and classical Hebrew. Meets the foreign language requirement for the BA degree. No language laboratory required.

HBR 1103. Beginning Hebrew II (4). This course is an introduction to the basic grammar, syntax, and phonology of modern and classical Hebrew. Meets the foreign language requirement for the BA degree. No language laboratory required.

HBR 2222. Intermediate Hebrew (4). This course focuses on translation and commentary on selected Hebrew readings. Meets the foreign language requirement for the BA degree. No language laboratory required.

IDS 2342. Noah's Flood Through the Ages (3). This course is an examination of the biblical flood story from its roots in the ancient Near East to antiquity up until today. Special focus on how the flood story has been a focus for contemporary debates involving religion and science since the 1600s.

IDS 2420. Heretics, Rebels and Militants in the Islamic World (3). This e-series honors seminar evaluates the topics of Islamic sectarianism and denominationalism by tracing the main sectarian movements among medieval and modern Muslims. Students engage in broad, critical and creative thinking about the creation of "orthodoxy" and "heresy," the development of religious differences, the interaction between politics, culture and religion, and the issue of religious violence. They gain knowledge and critical thinking skills that assist them as they navigate a range of perspectives and trajectories related to the world's many different Muslims.

IDS 2679. Need and Greed (Is Money the Root of All Evil?) (3). This course examines the ethics of money, wealth, and poverty from the perspective of religious communities.

IDS 3197. Responses to the Holocaust (3). This course examines various responses – literary, theological, and cinematic – to the attempted destruction of the Jews of Europe during World War II.

IDS 3317. Demons, the Antichrist, and Satan (3). This course examines traditions regarding demons, the Antichrist and Satan in the Bible, Judaism and Christianity. Biblical and ancient non-biblical texts that describe these figures are examined in their historical contexts. Traditions regarding Satan and other evil personages are traced historically so that students have a sense of how an understanding of these figures changed over time.

IDS 3326. Understanding Religion: Understanding People (3). This course introduces students to the evaluation of some key ethical questions relating, in particular, to religious liberty and toleration, to multiculturalism, to personal spiritual exploration, and ultimately to issues of life and death. The course is specifically designed for students studying at the FSU London Study Centre as it makes extensive use of the city itself as a site of discovery, inspiration, and reflection.

IDS 3392. Just Torture (3). In this course, students learn to think critically about a range of topics that include: history of torture; torture, pain, and unmaking the world; social psychological accounts of conditions making torture possible; genealogy of modern torture; democracy and recent proposals to legalize torture; comparative moral and religious perspectives on torture and its critique; and prospects for the abolition of torture.

IDS 3466. India Through Bollywood Film (3). This course examines Indian identity, cultural, and religious values as expressed in film. The popular cinema produced in Bombay (now Mumbai), dubbed 'Bollywood,' predominates, spanning the period from Indian and Pakistani Independence (1947) to the 21st century.

IDS 3671. Science Fiction, Dystopia, Fate, and the Problem of Evil (3). This course explores the concepts of fate, providence, and the problem of evil in religion and popular culture through the critical study of several highly successful science fiction and dystopian novels authored during the twentieth and twenty-first centuries. It situates these novels in the context of philosophical and theological developments from ancient times to the present.

PHI 3700. Philosophy of Religion (3). This course is an analysis of major issues in philosophy of religion. Topics may include the rationality of religious belief, faith, religious experience, religious language, evil, and the relation between religion and morality. Also offered by the Department of Religion.

REL 1300. Introduction to World Religions (3). This course surveys the major living religious traditions of the world, with attention to their origins in the ancient world and their classic beliefs and practices.

REL 2121. Religion in the United States (3). This course examines the scope and nature of religious movements, trends, and figures in American religious history, with an emphasis on the role that religious groups and institutions have played in conceptions of America and formations of American identity.

REL 2210. Introduction to the Old Testament (3). This course studies the history, religious thought, and social institutions of ancient Israel as reflected primarily in its literature.

REL 2240. Introduction to the New Testament (3). This course introduces students to the writings of the New Testament in the context of the historical development of early Christianity.

REL 2315. Religions of South Asia (3). This course studies the history and culture of the religious traditions of South Asia. A study of the manifestations of Hinduism, Buddhism, Jainism, Islam, Sikhism, and Christianity in India, Pakistan, Bangladesh, and Sri Lanka.

REL 2350. Religions of East Asia (3). This course is an introduction to the history, thought, and practice of religion in China, Korea, and Japan. Confucianism, Taoism, Buddhism, and popular religious traditions from ancient through modern times are covered.

REL 3112. Religion and 20th Century Fantasy Literature (3). This course offers an overview of theological and anti-theological elements in twentieth and twenty-first century fantasy literature from authors Lewis, Tolkien, Rowling, and Pullman.

REL 3128r. Topics in Religion in the Americas (3). May be repeated to a maximum of nine semester hours.

REL 3142. Religion, the Self, and Society (3). This course covers interpretation of religious phenomena by the major social theorists of modern times. The course is divided into two parts: the psychology of religion and the sociology of religion.

REL 3145. Gender and Religion (3). This course considers the impact of gender on religion. Includes cross-cultural studies, theoretical works, and gender issues within religious traditions.

REL 3152. Religion, Race, and Ethnicity (3). This course examines the relationship between race, ethnicity, and religious beliefs in a cross-cultural context.

REL 3155. Psychology in American Religious History (3). This course explores the psychological aspects of religious life in five different religious traditions in the United States. It examines the cultural experiences and social structures that have shaped psychological approaches to religion in the U.S. in the 20th and 21st centuries.

REL 3160. Religion and Science (3). This course provides an historical and philosophical analysis of major questions in the relationship between religion and science.

REL 3170. Religious Ethics and Moral Problems (3). This course discusses contemporary moral problems such as deception, sexual activities and relations, and capital punishment from the standpoints of major religious traditions.

REL 3171r. Topics in Ethics (3). This course considers themes and problems in modern ethics. May be repeated to a maximum of nine semester hours. May be repeated within the same semester.

REL 3180. Religion and Bioethics (3). This course offers an introduction to theoretical and practical issues in bioethics from the perspective of a variety of religious and secular positions.

REL 3194. The Holocaust (3). This course examines the origins, the process, and the consequences of the destruction of the European Jews during World War II.

REL 3209. The Dead Sea Scrolls (3). Prerequisite: REL 2210 or equivalent. This course examines key manuscripts of the Qumran corpus and focuses on issues such as the history, beliefs, and praxis of the Jewish sectarian movement that is associated with the scrolls; the archaeology of the Qumran site; and the significance of the scrolls for understanding Second Temple Judaism.

REL 3224. The Hebrew Prophets (3). This course analyzes the prophetic books of the Hebrew Bible/Old Testament: Isaiah, Jeremiah, Ezekiel, and the twelve minor prophets. The course examines the role of prophecy elsewhere in the Hebrew Bible (as in the Elijah stories) and situates the biblical prophets within the broader context of prophecy, as a religious and social phenomenon in the ancient Near East.

REL 3293r. Topics in Biblical Studies (3). Prerequisites: REL 2210 and REL 2240 or instructor permission. This course focuses on selected topics dealing with biblical writings in their ancient historical contexts and/or their interpretation in later periods. May be repeated to a maximum of nine semester hours.

REL 3333. Ramayana in Indian Culture and Beyond (3). This course is an introduction to the Hindu tradition through the Ramayana, one of its most popular and celebrated sacred texts.

REL 3337. Goddesses, Women, and Power in Hinduism (3). This course studies female power in Hindu cosmology, mythology, and society. A study of Hindu goddesses, women, and female symbolism and the multifaceted relationship among them.

REL 3340. The Buddhist Tradition (3). This course surveys the Buddhist tradition from its beginnings through the modern period. Some attention to its contemporary forms.

REL 3345. Chan/Zen Buddhism (3). This course focuses on Chan, a school of Chinese Buddhism popularly known in Japanese as "Zen". The course surveys Zen both historically and thematically, from its beginnings through the modern period. Topics include Chan's origins, history, doctrine, ethical beliefs, meditation, ritual, and monastic institutions.

REL 3351. Japanese Religions (3). This course investigates the influence of Japanese religious traditions on Japanese life, culture, and history; as well as the influence of history and politics on modern Japanese religiosity.

REL 3358. Tibetan and Himalayan Religions (3). This course is an historical and thematic survey of the religions of Tibet and the Himalayas, including Nepal, Bhutan, and Sikkim. The course emphasizes significant facets of this region's rich cultural heritage, including religion, literature, art, and politics.

REL 3363. Islamic Traditions (3). This course provides a historical and topical survey of Islam as a religion and civilization, focusing on the formative and classical periods of its history. The course is primarily concerned with the life and career of Muhammad, the Prophet of Islam; the scriptural sources of Islam (i.e., the Qur'an and the Sunna); and the development of the Muslim community and its principal institutions (schools of thought, law, theology, cultural life, and mystical traditions).

REL 3367. Islamic Traditions II: Islam up to the Modern World (3). This course examines Islam and its adherents from 1300 CE to the present, concentrating on the last two centuries of Islamic history: the period of reform, renewal, and revolution in the wake of Western political and cultural domination. This course investigates a basic question: What happened to different Muslim communities and intellectuals (specifically those in the Arab world, Iran, Turkey, and Africa) as they responded to the challenges posted by "Westernization" and "modernization?" Moreover, it explores the relatively new phenomenon of Islam in America.

REL 3370. Religion in Africa (3). This course examines the variety and complexity of religious practices and beliefs on the African continent, and in particular how African discourses of religion challenge our most fundamental understandings of the term religion.

REL 3430. Issues and Thinkers in Western Religious Thought (3). This course is an introduction to the Western tradition of religious thought as illustrated by the writings of some of its greatest representatives. Readings in such primary sources as Augustine, Dante, Erasmus, Luther, Pascal, Hegel, and Kierkegaard.

REL 3431. Critics of Religion (3). This course is an introduction to the major thinkers and texts in the critique of religion as it developed in the 19th and 20th centuries in the west. Beginning with Schleiermacher, the course moves on to consider the so-called "masters of suspicion" — Feuerbach, Marx, Nietzsche, and Freud. By means of a close examination of central texts, students explore the meaning of a critique of religion, the structure of religious consciousness, the place of religion with respect to other forms of culture, the problem of religion and alienation, and the possibility of a critical faith.

REL 3484. New Religious Movements (3). This course investigates the role of new religious movements (NRMs) in American culture and history.

REL 3505. The Christian Tradition (3). This course studies the major beliefs, practices, and institutional forms of Christianity in historical perspective.

REL 3541. American Protestant Thought in Historical Context (3). This course traces the historical development of American protestant thought by examining the writings of influential American protestant thinkers from different time periods, and by considering the social and intellectual forces that influenced their differing conceptions of Christian life.

REL 3607. The Jewish Tradition (3). This course is a survey of the varieties of institutional structures, beliefs, and religious practices of post-biblical Judaism in their historical contexts.

REL 3935r. Topics in Buddhism (3). This course focuses on selected topics and themes in the academic study of Buddhism. The course may explore key subjects and theories in Buddhist studies, including philosophy, history, sociology, anthropology, literature, and art history intended to introduce students to the diversity of Buddhist traditions throughout Asia, Europe, and North America and to help them develop critical skills necessary for evaluating a variety of scholarly approaches to the subject. May be repeated to a maximum of nine semester hours. May be repeated within the same semester.

REL 4044. What Is Religion? What Is Religious Studies? (3). Prerequisite: Successful completion of at least twelve hours of coursework in the department of religion. This course is a survey of how theorists in the modern era have answered questions about the origin, essence, and function of religion, as well as an examination of the methods by which religion is studied in a scholarly environment.

REL 4190r. Undergraduate Religion and Culture Seminar (3). Prerequisite: Instructor permission. This course focuses on problems and issues in religion and culture. Topics vary. Intended for advanced undergraduate students. May be repeated to a maximum of nine semester hours. May be repeated within the same term.

REL 4203r. Readings in Classical Hebrew Texts (1–3). Prerequisite: HEB 2230 or instructor permission. This course consists of intensive work on specific religious texts in classical Hebrew (ancient or medieval). Choice of texts vary. May be repeated to a maximum of twelve semester hours.

REL 4214. The Book of Genesis: Literary and Historical Approaches (3). Prerequisite: REL 2210 or equivalent. This course offers a close and critical reading of the Book of Genesis in terms of its composition, history of its interpretations, its Near Eastern context, its narrative artistry, as well as its relevance for ethics and theology.

REL 4215. Judaism in the Graeco-Roman World (3). This course studies the history of the Jews and the development of Jewish religious ideas, literature, institutions, and practices from the Maccabean Revolt to the redaction of the Babylonian Talmud.

REL 4290r. Undergraduate Biblical Studies Seminar (3). Prerequisite: Instructor permission. This course consists of advanced work in biblical studies for undergraduates. Topics vary. May be repeated to a maximum of nine semester hours. May be repeated within the same semester.

REL 4304r. Undergraduate History of Religions Seminar (3). Prerequisite: Instructor permission. This course studies problems and issues in the history of religions. Topics vary. Intended for advanced undergraduate students. May be repeated to a maximum of nine semester hours.

REL 4324r. Tutorial in Greek Religious Texts (1–3). This course studies selected readings in Greek of Jewish, Christian, and other religious texts from the ancient world. A basic knowledge of Greek grammar is presumed. May be repeated to a maximum of twelve semester hours.

REL 4335. Modern Hinduism (3). Prerequisite: REL 2315, REL 3333, or REL 3337. This course studies selected topics on the Hindu tradition in 19th and 20th century India. Includes modern Hindu thinkers, reform movements, popular religion, Hindu nationalism, and pluralism. Attention also to Hindu-inspired religious movements outside India and to other topics of student interest.

REL 4357r. Classical Tibetan (1–3). This course is a systematic and comprehensive study of basic literary Tibetan grammar, common locutions, and translation devices. Emphasis is on exposure to a variety of styles and genres in Tibetan religious literature including Buddhist texts on philosophy, ritual, and history. May be repeated to a maximum of twelve semester hours.

REL 4359r. Special Topics in Asian Religions (3). This course focuses on selected topics and themes in the academic study of Asian religions with special emphasis on issues of methodology. Topics may include key theories in Asian studies, religion, philosophy, history, sociology, and anthropology intended to help students develop critical skills. May be repeated to a maximum of twelve semester hours as topics vary.

REL 4366. Seminar on Shi'ite Islam (3). This seminar focuses on the manifold expressions of Shi'ism from its origins to the present day. It examines the political divisions within the early Islamic community that led to the development of the shi'a. The seminar also examines the earliest Shi'a sects and the major juridical and theological developments within Ithna-'Ashari ("12er") Shi'ism, such as the doctrine of the Imamate and the occultation and return of the 12th Imam. The seminar also studies the establishment and elaboration of Fatimid Isma'ilism. The latter part of the seminar is devoted to contemporary issues among the Shi'ites, including contemporary treatments of the martyrdom of Hussayn and the role of Hizbullah in the politics of the Middle East.

REL 4393. Islam in North America (3). This course surveys in seminar format the manifestations of Islam in the United States, as well as American perceptions of Islam and Muslims. The course begins with the early 18th century and examines early American attitudes toward Muslims, and then moves to the experience of Islam among African-Americans. The latter third of the course is devoted to the assimilation of Muslim immigrants in the US, and how the issues of race, gender, "trans-nationalism" and stereotypes impact the American Muslim community.

REL 4491r. Undergraduate Religious Thought Seminar (3). Prerequisite: Instructor permission. Topics vary. Intended for advanced undergraduate students. May be repeated to a maximum of nine semester hours.

REL 4510. Christianity after the New Testament (3). Prerequisite: REL 2240 or instructor permission. This course covers major developments in the history and theology of Christianity in the first three centuries of the Common Era.

REL 4511. Christianity in Late Antiquity (3). This course studies Christian thought, institutions, lifestyles, and literature in their social, cultural, and historical contexts from the time of Jesus to the early Middle Ages.

REL 4613. Modern Judaism (3). This course studies the development of Judaism as a religious and cultural phenomenon in Europe, North America, and the Middle East from the European Enlightenment to the birth of the State of Israel.

REL 4905r. Directed Individual Study (1–3). This course consists of supervised reading and research on selected topics. May be repeated to a maximum of nine semester hours.

REL 4912r. Tutorial in Sanskrit Texts (1–3). Prerequisite: SRK 4103 or equivalent. This course consists of readings in Sanskrit of selected religious texts. Topics vary. May be repeated to a maximum of twelve semester hours.

REL 4914r. Tutorial in Latin Religious Texts (1–3). This course consists of readings in Latin of selected religious texts. Topics vary. A basic knowledge of Latin grammar is presumed. May be repeated to a maximum of twelve semester hours.

REL 4932r. Honors Work (3). In this course, students completing this program are awarded their diploma "With Honors in Religion." Interested students should consult with the advisor of the program. May be repeated to a maximum of nine semester hours.

SRK 4102. Elementary Sanskrit I (3). This course is an introduction to the morphology and syntax of Sanskrit and introduction to Sanskrit texts.

SRK 4103. Elementary Sanskrit II (3). This course is an introduction to the morphology and syntax of Sanskrit and introduction to Sanskrit texts.

Graduate Courses

RLG 5035. Seminar: Introduction to the Study of Religion (3).
RLG 5195r. Seminar: Religion and Culture (3).
RLG 5204r. Readings in Classical Hebrew Texts (1–3).
RLG 5292r. Tutorial in Near Eastern Languages and Literature (1–3).
RLG 5297r. Seminar: Biblical Studies (3).
RLG 5305r. Seminar: History of Religions (3).
RLG 5318r. Tutorial in Classical Chinese Religious Texts (3–12).
RLG 5328r. Tutorial in Greek Religious Texts (1–3).
RLG 5332. Modern Hinduism (3).
RLG 5346r. Seminar: Chinese Buddhism (3–12).
RLG 5354r. Special Topics in Asian Religions (3).
RLG 5356r. Readings in Tibetan Religious Texts (3–12).
RLG 5367. Seminar on Shi'ite Islam (3).
RLG 5368. Islam in North America (3).
RLG 5486. Religious Thought in America (3).
RLG 5497r. Seminar: Religious Thought (3).
RLG 5514. Christianity in Late Antiquity (3).
RLG 5516. Christianity after the New Testament (3).
RLG 5562. Modern Roman Catholicism (3).
RLG 5612. Judaism in the Graeco-Roman World (3).
RLG 5616. Modern Judaism (3).
RLG 5906r. Directed Individual Study (1–3).
RLG 5911r. Supervised Research (1–3). (S/U grade only.)
RLG 5915r. Tutorial in Sanskrit Texts (1–3).
RLG 5916r. Tutorial in Latin Religious Texts (1–3).

RLG 5937r. Special Topics in Religion (3).
RLG 5940. Supervised Teaching (3). (S/U grade only.)
RLG 6176r. Seminar: Ethics and Politics (3).
RLG 6298r. Seminar: Scriptures and Interpretation (3).
RLG 6498r. Seminar: Religious Thought (3).
RLG 6596r. Seminar: Religious Movements and Institutions (3).
SRK 5236. Intermediate Readings in Sanskrit I (3).
SRK 5237. Intermediate Readings in Sanskrit II (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

RESEARCH AND EVALUATION:
see Educational Psychology and Learning Systems

RESEARCH DESIGN AND STATISTICS:
see Educational Psychology and Learning Systems

Undergraduate Department of RISK MANAGEMENT/INSURANCE, REAL ESTATE AND LEGAL STUDIES

College of Business

Web Page: *https://business.fsu.edu/departments/rmi*
Chair: Cole; **Professors:** Cole, Gatzlaff, McCullough, Patricia Schriefer, Sirmans; **Associate Professors:** Marzen, Nyce, Orozco; **Assistant Professors:** Broxterman, Eastman, Kim, Letdin, Zhou; **Teaching Faculty III in Legal Studies and Real Estate:** Bailey, Woodyard; **Teaching Faculty I in Risk Management and Insurance:** Paul Schriefer, Stith; **Research Faculty I in Risk Management and Insurance:** Nicholson; **J. Harold and Barbara M. Chastain Eminent Scholar in Real Estate:** G.S. Sirmans; **Payne H. and Charlotte Hodges Midyette Eminent Scholar in Risk Management and Insurance:** Patricia Schriefer; **Mark C. Bane Professor in Business Administration:** Gatzlaff; **State Farm Professor of Risk Management and Insurance:** McCullough; **Dr. William T. Hold/The National Alliance Professor in Risk Management and Insurance:** Cole; **Robert L. Atkins Associate Professor in Risk Management and Insurance:** Nyce

The risk management/insurance and real estate degree programs are designed to meet the academic needs of professional insurance, risk management, and real estate practitioners. The term "profession" connotes an occupation requiring advanced education and training and the ability to meet standards deemed desirable for the protection of the public. The department also offers a combined BS/MSF pathway that allows highly qualified undergraduate students in the real estate program the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS in Real Estate and MSF degrees.

The business law curriculum is a non-degree service program serving all students in the various business programs. A basic knowledge of business law is essential to the successful transaction of business and economic affairs. Advanced and specialized courses are available to students who wish for a more comprehensive knowledge of business law in relation to such fields as accounting, finance, insurance, and real estate.

The department also offers a combined BS/MSF pathway and a combined BS/MBA pathway that allows highly qualified undergraduate students in the real estate major the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MSF or MBA degrees. Additionally, the department also offers a combined BS/MS-RMI pathway and a combined BS/MBA that allows highly qualified undergraduate students in the risk management and insurance major the opportunity to accelerate their coursework and take up to nine semester hours of graduate coursework, which may be counted toward both the BS and MS-RMI or MBA degrees. Detailed descriptions of the MBA, MSF, and MS-RMI programs can be found in the Graduate Bulletin.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in risk management/insurance and real estate satisfy this requirement by earning a grade of "C–" or higher in CGS 2100 (state mandated business prerequisite requirement) or CGS 2518.

Note: CGS 2518 is required for students in the Real Estate major and for students in the Risk Management/Insurance major and is prerequisite to all 4000-level real estate and risk management/insurance courses.

Required Risk in Business and Society Course

All undergraduates at Florida State University intending to enter a business major should complete RMI 2302, Risk in Business and Society, with a "C–" or better by the end of their sophomore year, but no later than their fifth mapping term.

Required Professional Development Course

All undergraduates entering Florida State University in Fall 2019 and later must complete a one-credit course in professional development, GEB 1030, with a "C–" or better by the end of their fifth mapping term. However, students are encouraged to complete the course by the end of their sophomore year to take full advantage of the material.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Risk Management/Insurance

1. ACG X021 or ACG X022, or ACG X001 and ACG X011
2. ACG X071 or ACG X301
3. CGS X100 (or demonstrated competency) or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
4. ECO X013
5. ECO X023
6. MAC X233 or MAC X230
7. STA X023 or STA X122 or QMB X100

Real Estate

1. ACG X021 or ACG X022, or ACG X001 and ACG X011
2. ACG X071 or ACG X301
3. CGS X100 (or demonstrated competency) or CGS X100C or CGS X530 or CGS X570 or CGS X060 or CGS X531 or CGS X000 or ISM X000 or CGS X518
4. ECO X013
5. ECO X023
6. MAC X233 or MAC X230
7. STA X023 or STA X122 or QMB X100

Degree Programs

Risk Management/Insurance Program

The curriculum in risk management/insurance provides students with the knowledge necessary to analyze the impact of risk and uncertainty upon business and society. Students who major in risk management/insurance prepare for a career in insurance, consulting, financial services, or corporate risk management. Classes cover a variety of topics, including analysis of the risk management process with a focus on enterprise risk management.

Students may coordinate their academic programs with the licensing examinations of the State of Florida and with the professional examinations of the Certified Insurance Councilor (CIC), the Certified Risk Managers (CRM), the Certified Chartered Property and Casualty Underwriters (CPCU), the Associate in Risk Management (ARM), the Chartered Life Underwriters (CLU), and other professional programs.

Requirements for a Major in Risk Management/Insurance

All students must complete:

1. The University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*
2. The state of Florida common program prerequisites for risk management/insurance majors
3. The general business core requirements for risk management/insurance majors
4. The general business breadth requirements for risk management/insurance majors
5. The major area requirements for risk management/insurance majors

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a risk management/insurance major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All risk management/insurance majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3)
FIN 3403 Financial Management of the Firm (3)
GEB 3213 Business Communications (3)
ISM 3541 Introduction to Business Analytics (3)
MAN 3240 Organizational Behavior (3)
MAR 3023 Basic Marketing Concepts (3)

General Business Breadth Requirements

All risk management/insurance majors must complete the two courses as follows. Each course must be completed with a grade of "C–" or better.

REE 3043 Real Estate (3)
RMI 3011 Risk Management/Insurance (3)

Capstone Course

All risk management/insurance majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C–" or better.

Major Area Requirements

All risk management/insurance majors must complete six courses as listed below. A grade of "C–" or better must be earned in each course used to satisfy the risk management/insurance major area requirements.

RMI 4115 Life Insurance Products (3)
RMI 4224 Property and Casualty Insurance Products (3)
RMI 4292 Property and Casualty Insurance Operations (3)
RMI 4347 Commercial Risk Management (3)

Plus at least two electives from the following list of courses:

RMI 4135 Employee Benefit Plans (3)
RMI 4226 Insurance Data Analytics (3)
RMI 4295 Advanced Property and Casualty Insurance (3)
RMI 4308r Seminar in Risk and Its Control (3) (Topics vary)
RMI 4420 Legal and Political Aspects of Insurance (3)

Selection of electives should be made after consultation with a faculty advisor in order to satisfy the student's interests and to qualify the student for the state licensing examinations and professional designations.

Real Estate Program

The real estate program provides a foundation for students seeking a broad understanding of the real estate market and its participants. Students are introduced to such concepts as urban economics, market behavior, valuation, finance, investment analysis, and real estate law. In general, the curriculum is designed to develop the fundamental skills necessary to make effective real estate business, investment, and consumption decisions. More specifically, the program equips students to enter a wide variety of real estate related professions (e.g. investment and portfolio analysis, institutional lending and mortgage banking, brokerage, appraisal, property management, and property development).

Students may coordinate their academic programs with licensing examinations of the State of Florida. Completion of the real estate major partially fulfills the requirements to be licensed as a real estate sales associate, or certified as a general appraiser, in the State of Florida.

Requirements for a Major in Real Estate

All students must complete:

1. The University-wide baccalaureate degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*
2. The state of Florida common program prerequisites for real estate majors
3. The general business core requirements for real estate majors
4. The general business breadth requirements for real estate majors
5. The major area requirements for real estate majors

Students must be admitted to the major no later than the end of their fifth mapping term, as determined by the College of Business.

Note: To be eligible to pursue a real estate major, students must meet the admission requirements for the AACSB accredited business programs in the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All real estate majors must complete the following six courses. A grade of "C–" or better must be earned in each course.

BUL 3310 The Legal and Ethical Environment of Business (3)
FIN 3403 Financial Management of the Firm (3)
GEB 3213 Business Communications (3)
ISM 3541 Introduction to Business Analytics (3)
MAN 3240 Organizational Behavior (3)
MAR 3023 Basic Marketing Concepts (3)

General Business Breadth Requirements

All real estate majors must complete the two courses as follows. Each course must be completed with a grade of "C–" or better.

REE 3043 Real Estate (3)
RMI 3011 Risk Management and Insurance (3)

Capstone Course

All real estate majors must complete the capstone class in Strategic Management and Business Policy (MAN 4720) with a grade of "C–" or better.

Major Area Requirements

All real estate majors must complete the five courses listed below. A grade of "C–" or better must be earned in each course used to satisfy the real estate major area requirements.

REE 4103 Real Estate Valuation (3)
REE 4143 Real Estate Market Analysis (3)
REE 4204 Real Estate Finance (3)
REE 4313 Real Estate Investment (3)
REE 4433 Legal Environment of Real Estate (3)

Selection of upper-division electives to satisfy the University-wide total hours requirement should be made after consultation with the student's faculty advisor.

Honors in the Major

The Department of Risk Management/Insurance, Real Estate and Legal Studies offers honors in the major to encourage talented students to undertake independent and original research as part of the undergraduate experience. For requirements and other information see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

BUL—Business Law
REE—Real Estate
RMI—Risk Management and Insurance

Undergraduate Courses

BUL 3310. The Legal and Ethical Environment of Business (3). Prerequisite: Admission to the College of Business. This course offers an introduction to the legal setting in which business operates. Emphasis is on public and regulatory law and on the social, political, and ethical aspects of legal issues in business. Subjects include the nature of law and legal process, administrative law, business and the Constitution, statutory and common law, and related topics.

BUL 3330. Law for Accountancy (3). This course surveys basic concepts of law as applied to the accounting profession, including contracts, agencies, partnerships and corporations, property, wills and trusts, securities regulation, consumer protection, and antitrust. Students may not receive credit for both BUL 3310 and BUL 3330.

BUL 3350. Uniform Commercial Code Business Law Problems (3). Prerequisite: BUL 3310 or BUL 3330. This course explores Uniform Commercial Code, the law of sales, commercial paper, secured transactions, competition, and the antitrust laws; professional liability.

BUL 3351. UCC and Law for Accountancy (3). This course exposes students to the basic concepts of law as applied to the accounting profession. The focus of the course is on the application and analysis of legal and ethical principles.

BUL 4651. Legal and Ethical Studies: Regulation and Compliance (3). This course examines the law of compliance and accompanying principles of corporate governance as a critical means of improving the efficiency and ethics of business organizations. Students study the internal controls, business practices and norms, operations, regulations, and laws that govern how business entities are managed and how the rights of a business entity's stakeholders are balanced, as well as the various duties, rights, and obligations of boards of directors, officers, managers, investors, shareholders, regulators, customers, and whistle-blowers.

REE 3043. Real Estate (3). This course is a survey introduction to real estate, real estate evaluation, and real estate investment decision making. The course, in addition to REE 4433, meets the FREC educational requirement for real estate sales licensing.

REE 4103. Real Estate Valuation (3). Prerequisite: REE 3043 (C– or better). This course acquaints students with the valuation process and the basics of valuation terminology. It also demonstrates the application of a variety of valuation techniques to both residential and income properties.

REE 4143. Real Estate Market Analysis (3). Prerequisites: REE 3043 and REE 4103. This course includes topics such as techniques of real estate market analysis, survey research, and applications of computers to real estate problems. (**Note:** REE 4103 and REE 4143 cannot be taken concurrently.)

REE 4204. Real Estate Finance (3). Prerequisites: REE 3043 and FIN 3403. This course is an intermediate treatment of real estate finance, investment, and tax analysis. Coverage includes mortgage markets, financing devices, and quantitative evaluation of real estate projects.

REE 4313. Real Estate Investment (3). Prerequisites: REE 3043 and REE 4103 or REE 4204 or departmental permission. This course introduces students to the analytical tools and procedures used to evaluate real estate investments. The course focuses on the topic of real estate investment analysis, primarily from the private investors' perspective.

REE 4433. Legal Environment of Real Estate (3). Prerequisites: BUL 3310 and REE 3043. This course is an intermediate treatment of the legal environment of real estate and real estate decision making. The course emphasizes common law rules and legal considerations inherent in contemporary real property decisions. The course, in addition to REE 3043, meets the FREC educational requirements for real estate sales licensing.

REE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine semester hours.

REE 4941. Real Estate Internship (3). (S/U grade only.) Prerequisite: Instructor permission. This internship is designed for College of Business students who desire to gain real-world experience in the real estate field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor, and the internship director.

REE 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine semester hours. Six semester hours of thesis are required to complete honors in the major.

RMI 2000. Practice of Risk Management (2). (S/U grade only.) This course reflects the most current developments in risk management.

RMI 2001. Principles of Risk Management (1). (S/U grade only.) This course is a survey of the general principles of risk management and their role in business.

RMI 2110. Personal Insurance Planning (3). This course is an introduction to personal risk exposure. The course integrates life, health, property, liability, private, and governmental programs.

RMI 2113. Personal Lines Insurance (2). (S/U grade only.) This course provides a thorough review of personal lines insurance principles and exposures.

RMI 2180. Benefits (2). (S/U grade only.) This course reflects the most current developments in insurance benefits.

RMI 2212. Personal and Business Property Insurance (3). This course provides an overview of property risks and coverages. Insurer operations are discussed in detail. Social problems associated with the risks are discussed as well as the impact of inland marine, transportation, and multi-peril coverages.

RMI 2214. Commercial Property Insurance (2). (S/U grade only.) This course provides a thorough review of commercial property principles and exposures.

RMI 2215. Commercial Casualty Insurance (2). (S/U grade only.) This course provides a thorough review of commercial liability principles and exposures.

RMI 2301. Analysis of Risk Management (2). (S/U grade only.) This course covers the concepts relating to the analysis of risk.

RMI 2302. Risk in Business and Society (3). This course is designed to enhance student understanding of risk and its implications for individuals, business, and society. The course focuses on the impact of uncertainty on decisions and the risk-reward tradeoff. Students analyze the implications of risk in a variety of settings.

RMI 2310. Risk Financing (2). (S/U grade only.) This course reflects the most current developments in risk financing.

RMI 2340. Risk Control (2). (S/U grade only.) This course reflects the most current developments in risk control.

RMI 2662. Introduction to Risk Management and Insurance (3). This course is an introduction to the principles, practices, and economics of insurance. The focus of the course is the relationship of fire, life and casualty contracts to business and contingency risks.

RMI 2700. Agency Management (2). (S/U grade only.) This course reflects the most current techniques and theories for agency management.

RMI 3011. Risk Management/Insurance (3). This course is an introduction to the principles of risk management and insurance and their application to personal and business pure risk problems.

RMI 4115. Life and Health Insurance Products (3). Prerequisite: RMI 3011. This course analyzes personal and business life and health insurance needs, characteristics of plans appropriate to meet needs. Life insurance rating, receiving, underwriting, and financial statement analysis are also studied.

RMI 4135. Employee Benefit Plans (3). Prerequisite: RMI 3011. This course studies basic concepts and managerial concerns underlying the group insurance mechanism and the characteristics of various qualified retirement planning vehicles.

RMI 4224. Property and Casualty Insurance Products (3). Prerequisite: RMI 3011. This course analyzes more common basic insurance contracts—their use and coverage afforded as a fundamental basis for understanding legal, underwriting, marketing, financial, and other insurance functions.

RMI 4226. Insurance Data Analytics (3). Prerequisite: RMI 3011. This course focuses on the use of data and analytics tools in the insurance industry. Students develop a set of tools for presenting and analyzing data, explore sources of data, and consider the range of applications for the data that is collected throughout the industry.

RMI 4292. Property and Casualty Insurer Operations (3). Prerequisite: RMI 3011. This course discusses the composition, financial structure, and operations of the insurance industry. Special consideration is given to consumer problems and solutions.

RMI 4295. Advanced Property and Casualty Insurance (3). Prerequisite: RMI 4224. This course studies business insurance problem evaluation and planning with proposed solutions utilizing comprehensive coverage package programs.

RMI 4308r. Seminar in Risk and Its Control (3). Prerequisite: Instructor permission. Topics vary. May be repeated to a maximum of six semester hours.

RMI 4347. Commercial Risk Management (3). Prerequisite: RMI 4224. This course studies the application of the risk management process. Includes risk control, risk financing, and business risk management problems.

RMI 4420. Legal and Political Aspects of Insurance (3). Prerequisites: BUL 3310 and RMI 3011. This course studies insurance contracts and marketing—judicial doctrines of contract construction, claims processes, insurance institutions, governmental regulation, and sponsorship of insurance.

RMI 4905r. Directed Individual Study (1–3). May be repeated up to three times.

RMI 4941. Risk Management and Insurance Internship (3). (S/U grade only.) Prerequisite: RMI 3011. This course is designed for Risk Management Insurance majors to gain real world experience in the Risk Management Insurance field through on-the-job practice. Students work under the direction of an approved industry professional, a faculty advisor and the internship director.

RMI 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine semester hours. Six semester hours of thesis are required to complete honors in the major.

Graduate Courses

BUL 5810. The Legal and Ethical Environment of Business (3).
BUL 5907r. Directed Individual Study (1–3).
REE 5105. Real Estate Valuation (3).
REE 5205. Topics in Real Estate Finance (3).
REE 5209. Advanced Real Estate Finance and Investment (3).
REE 5305. Real Estate Investment (3).
REE 5907r. Directed Individual Study (1–3)
RMI 5017. Fundamentals of Risk and Insurance (3).
RMI 5018. Alternative Risk Financing (3).
RMI 5087. International Risk Management (3).
RMI 5136. Employee Benefit Plans (3).
RMI 5225C. Property/Liability Insurance Contract Analysis (3).
RMI 5257. Data Analytics in Risk Management and Insurance (3).
RMI 5345. Risk Management in the Business Enterprise (3).
RMI 5710C. Insurance Company Operations (3).
RMI 5720C. Insurance Accounting and Finance (3).
RMI 5810. Personal Financial Planning (3).
RMI 5906r. Directed Individual Study (1–3). (S/U grade only.)
RMI 5907r. Special Studies in Management (1–3).
RMI 5917r. Supervised Research (1–3). (S/U grade only.)
RMI 5935r. Special Topics in Risk Management and Insurance (1–3).
RMI 5946r. Supervised Teaching (1–3). (S/U grade only.)
RMI 6195. Doctoral Seminar in Insurance: Life/Health Insurance Topics (3).
RMI 6296. Doctoral Seminar in Insurance: Property/Liability Insurance Topics (3).
RMI 6395. Doctoral Seminar in Risk and Insurance Theory (3).
RMI 6917r. Supervised Research (1–3). (S/U grade only.)
RMI 6946r. Supervised Teaching (1–3). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

RUSSIAN:
see Modern Languages and Linguistics

Undergraduate Interdisciplinary Program in RUSSIAN AND EAST EUROPEAN STUDIES

College of Social Sciences and Public Policy

Website: *https://coss.fsu.edu/rees/*
Director: Lee Metcalf (Social Sciences); **Director of Internships and Professional Development:** Na'ama Nagar (Political Science)

The interdisciplinary program in Russian and East European studies is an international area studies program that is designed to develop a student's competence in the language, history, culture, and contemporary political and economic setting of a particular country or cultural region. This area studies program is focused on Russia and Eastern Europe. A major or minor in this program serves the needs of: (1) general liberal arts students who wish to learn more about this important area of the world; (2) students who wish to pursue graduate work in this or related fields; and (3) students who seek employment in or related to Russia or Eastern Europe. The program combines area- or country- specific courses with more general comparative courses that provide students with the necessary intellectual tools, concepts, and theories to make sense out of their particular disciplinary concentrations. Students are to select language and thematic specializations in line with their intellectual interests and career goals and design their program of study around them.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Russian and East European studies satisfy this requirement by earning a grade of "C–" or higher in any course at FSU which meets the liberal studies computer competency designation, though it is strongly recommended that students take either CGS 2060 or CGS 2100 in order to satisfy this requirement.

Requirements for a Major in Russian and East European Studies

Students majoring in the program are to construct their study program around three components: (1) a language requirement, (2) area-specific course work, and (3) a concepts and theories tool requirement. The total hour requirements for a major are thirty-six semester hours beyond the liberal studies requirements (with a grade of "C–" or better in each course). As an interdisciplinary program, no minor is required.

In addition to a 2.0 overall GPA, all students must meet "mapping" requirements. See *http://www.academic-guide.fsu.edu/* for more information.

Language Requirement

All students are required to complete relevant area language coursework to the intermediate level or demonstrate proficiency to the intermediate college level in Russian, German, Czech, Serbo-Croatian, or some other East European language. Students will be encouraged to bring their chosen language up to an effective level of proficiency in reading, writing, and speaking by either taking additional course work on Florida State University's campus or by participating in a semester or summer abroad program in their relevant cultural area that is administered by, affiliated with, or approved by Florida State University, as such programs become available. To encourage the achievement of language proficiency, language coursework hours taken beyond the twelve semester hour minimum or demonstrated intermediate college-level proficiency will be counted toward the required thirty-six semester hours for the major.

Area Specific Course Requirement

Students are to select at least twenty-four semester hours of coursework from the approved area specific course list. Other special topic area-specific courses may be approved from time to time. Students are encouraged to view the term specific course lists posted on the *International Studies* Canvas site and available at the advising office in *105 Bellamy* and the program office in *211 Bellamy*.

Concepts and Theories Tool Requirement

Students are to take at least six semester hours of coursework from among the concepts and theories courses listed below. Students should select these courses with some care and in consultation with their academic advisor in order to meet the required prerequisites for some of the approved courses.

Additional Course Requirement

The remaining six credit hours may be selected from any approved Russian and East European Studies course and/or an approved internship (INR 4941).

Study Abroad

While it is not required, students majoring in Russian and East European Studies are strongly encouraged to study abroad. The Summer programs in Croatia, Prague, and Russia offer relevant course work. See *http://international.fsu.edu/* for more information on the various options available through Florida State International Programs.

Students should consult with the Russian and East European Studies Director about any other study abroad programs they wish to pursue. Coursework taken in overseas locations must be approved in advance for credit toward the major.

Internship

The Russian and East European Studies program encourages students to take advantage of internships with an area focus. Information on possible placements can be found on the *International Studies* Canvas site. All internships must be approved the semester before the internship takes place. See the Russian and East European Studies program advisor in *211 Bellamy* for further information.

Honors in the Major

The Program in Russian and East European Studies offers honors in the major to encourage talented juniors and seniors to undertake independent and original work as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Second Majors

Majors in Russian and East European Studies may pursue a second major. When students pursue a second major they may count six semester hours of coursework toward both of their majors.

Minor in Russian and East European Studies

Students pursuing a minor in the program must complete eighteen semester hours of Russian and East European course work beyond the liberal studies requirement. In this case none of the broader concepts and theories courses will count toward the eighteen semester hour minimum. Students may select freely from all area specific courses. Modern language courses numbered above 2999 may count toward the minor. Nine of the eighteen hours must be numbered above 2999. A maximum combined total of six semester hours in internship or directed individual study may apply to the minor.

Approved Courses

Note: Descriptions of specific courses can be found under the individual departments in which they are taught. In addition to the courses listed below, special topics courses may be approved by the program director in any particular term. These courses appear on the term course lists and are available at the *International Studies* Canvas Organization site, the advising office in *105 Bellamy*, and the program office in *211 Bellamy*.

Area Specific (twenty-four credit hours)

ARH	**4450**	Modern European Art: Post-Impressionism through Surrealism (3)
AMH	**4511**	Twentieth-Century United States Foreign Relations (3)
CPO	**3101**	European Union (1)
EUH	**3205**	19th-Century Europe: A Survey (3)
EUH	**3206**	20th-Century Europe: A Survey (3)
EUH	**3551**	Modern Poland (3)
EUH	**3571**	Russia to Nicholas I (3)
EUH	**4241**	The Holocaust in Historical Perspective (3)
EUH	**4242**	World War I: Europe 1900–1918 (3)
EUH	**4282**	Europe in the Cold War and Detente (3)
EUH	**4331**	East-Central Europe from 1815 to Present (3)
EUH	**4332**	Balkans Since 1700 (3)
EUH	**4454**	Napoleonic Europe, 1795–1815 (3)
EUH	**4574**	19th-Century Russia (3)
EUH	**4576**	20th-Century Russia (3)

GEA 4500 Europe (3)
GEA 4554 Russia and Southern Eurasia (3)
INR 4083 International Conflict (3)
PHP 3510 Introduction to Marxist Philosophy (3)
RUS 2330 Russian Grammar and Popular Culture (3)
RUS 3400 Russian Conversation and Composition (3)
RUS 3420 Russian Grammar and Composition (3)
RUS 4410 Advanced Russian Conversation and Composition (3)
RUS 4930r Special Topics (3)
RUT 3110 Russian Literature in English Translation (3)
RUT 3504 Modern Russian Life (3)
RUT 3505 Russian Culture and Civilization (3)
RUT 3514 Russian Folklore and Fairy Tales (3)
RUT 3523r Russian Cinema (3)
RUW 3100 Survey of Russian Literature I (3)
RUW 3101 Survey of Russian Literature II (3)
RUW 4470r Modern Russian Literature (3)
SLL 3500 Slavic Culture and Civilization (3)
SLL 3510 The Slavic Vampire (3)
WOH 4244 World War II (3)

Note: See course descriptions for required prerequisites.

Comparative Concepts and Theories (six credit hours)

Recommended Social Science prerequisite courses

CPO 2002 Introduction to Comparative Government and Politics (3)
ECO 2013 Principles of Macroeconomics (3)
ECO 2023 Principles of Microeconomics (3)
INR 2002 Introduction to International Relations (3)

Other Concepts and Theories

ANT 2410 Introduction to Cultural Anthropology (3)
ANT 3212 Peoples of the World (3)
ANT 3610 Language and Culture (3)
ANT 4241 Anthropology of Religion (3)
ARH 2000 Art, Architecture, and Artistic Vision (3)
ARH 3056 History and Criticism of Art I (3)
ARH 3057 History and Criticism of Art II (3)
CPO 3034 Politics of Developing Areas (3)
CPO 3703 Comparative Democratic Institutions (3)
CPO 3743 States and Markets (3)
CPO 4057 Political Violence (3)
ECO 3303 History of Economic Ideas (3)
ECO 4704 International Trade (3)
ECO 4713 International Finance (3)
ECS 3003 Comparative Economic Systems (3)
GEA 1000 World Geography (3)
GEO 1400 Human Geography (3)
GEO 3502 Economic Geography (3)
GEO 4421 Cultural Geography (3)
GEO 4471 Political Geography (3)
INR 3004 Geography, History, and International Relations (3)
INR 3084 Terror and Politics (3)
INR 3502 International Organizations (3)
INR 3603 Theories of International Relations (3)
INR 4011 Political Responses to Economic Globalization (3)
INR 4075 International Human Rights (3)
INR 4078 Confronting Human Rights Violations (3)
INR 4083 International Conflict (3)
INR 4702 Political Economy of International Relations (3)
PAD 3003 Public Administration in American Society (3)
PAD 4301 Disaster Management Planning for Urban Poor Communities (3)
PAD 4374 Introduction to Terrorism: Preparedness and Response (3)
PAD 4375 Advanced Topics in Terrorism (3) [with PAD 4374 as a prerequisite]
PAD 4831 International Conflicts and Terrorism (3)
PAD 4833 International and Comparative Disaster Management (3)
PHI 2010 Introduction to Philosophy (3)
PHI 2630 Ethical Issues and Life Choices (3)
PHI 3670 Ethical Theory (3)
PHI 3700 Philosophy of Religion (3)
PHI 3800 Philosophy and the Arts (3)
PHI 3882 Philosophy in Literature (3)
PHM 2300 Introduction to Political Philosophy (3)
PHM 3331r Modern Political Thought (3)
PHM 3351 Philosophy of Human Rights (3)
PHM 3400 Philosophy of Law (3)
PHM 4340r Contemporary Political Thought (3)
PSY 2012 General Psychology (3)
PUP 3002 Introduction to Public Policy (3)
REL 1300 Introduction to World Religions (3)
REL 3142 Religion: The Self and Society (3)
REL 3170 Religious Ethics and Moral Problems (3)
REL 3505 The Christian Tradition (3)
SOP 3004 Social Psychology (3)
SYA 4010 Sociological Theory (3)
SYG 1000 Introductory Sociology (3)
SYG 2010 Social Problems (3)
SYO 3530 Social Classes and Inequality (3)
SYP 3000 Social Psychology of Groups (3)
SYP 3350 Collective Action and Social Movements (3)
SYP 3454 The Global Justice Movement (3)
SYP 3540 Sociology of Law (3)
URP 3000 Introduction to Planning and Urban Development (3)
URP 4618 Planning for Developing Regions (3)
URS 1006 World Cities: Quality of Life (3)

Note: See course descriptions for required prerequisites.

Additional Russian and East European Studies courses (six credit hours)

Select from any approved Russian and East European Studies course and/or an approved internship.

INR 4941 Internship (3–6)

Definition of Prefix

EUS—European Studies

Undergraduate Courses

EUS 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine semester hours.

EUS 4970r. Honors Thesis (1–6). Six hours of credit must be taken in two successive semesters and must result in the production of a thesis. May be repeated to a maximum of nine semester hours.

Graduate Courses

EUS 5906r. Directed Individual Study (1–3). (S/U grade only.)

EUS 5910r. Supervised Research (1–3). (S/U grade only.)

For listings relating to graduate course work for thesis and master's examination and defense, consult the *Graduate Bulletin*.

SANSKRIT:
see Religion

SCIENCE:
see Secondary Science and/or Mathematics Teaching

SCIENCE EDUCATION:
see Middle and Secondary Education

Undergraduate Department of SCIENTIFIC COMPUTING

College of Arts and Sciences

Website: *http://www.sc.fsu.edu/*

Chair: Erlebacher; **Professors**: Beerli, Erlebacher, Gunzburger, Meyer-Baese, Peterson, Plewa, Shanbhag; **Associate Professors:** Lemmon, Wang; **Assistant Professors**: Huang, Quaife; **Professor Emeritus:** Navon; **Courtesy Faculty**: Barbu, Duke, Hussaini, Ke, Mascagni, Mendoza Cortes, Ridley, Roeder, Ye

Program Overview

Over the last few decades, computation has joined theory and experimentation to form the three pillars of scientific discovery and technological design. Moreover, many of the critical problems facing society can only be solved by teams of individuals from a variety of disciplines. Integral to these teams are computational scientists, who provide the simulation, optimization, and visualization algorithms used to solve problems on computers. The main activity of scientific computing is the development of computational tools that have applicability over a range of scientific disciplines.

The Department of Scientific Computing consists of faculty interested in the invention, analysis, implementation, and application of computational algorithms that can be applied to problems arising in traditional disciplines. Examples include biology and ecology, chemical engineering, chemistry, computer science, geology and geophysics, material science, mathematics, mechanical engineering, and physics and astrophysics. An increasing number of algorithms involve machine learning and data science. Faculty and graduate students are supported in their research by several federal, state, laboratory, and commercial organizations. Further breadth and depth are added to the research and educational missions of the department through faculty from other departments at Florida State University and individuals from several national laboratories who interact closely with our faculty. These faculty members ensure that the department is ideally positioned to offer innovative degree programs that impart a synergy between the mathematical and application-driven aspects of scientific computing, thus providing the student with extensive interdisciplinary training.

Students are trained in a truly interdisciplinary environment. The undergraduate program offered by the Department of Scientific Computing is designed to provide broad training in the core methods of computational science across disciplines, followed by in-depth specialization in areas of particular interest to students. Even within specializations, the focus remains on interdisciplinary approaches to solving science and engineering problems. All students are also exposed to research-type experiences as part of the undergraduate degree program.

The Department of Scientific Computing offers the Bachelor of Science (BS) degree program in Computational Science. It also offers a minor in computational science. Please refer to the Department of Scientific Computing Web site at *http://www.sc.fsu.edu* for updates about the status of the minor and certificate programs.

Computational Resources

The Department of Scientific Computing oversees a diverse computing infrastructure in support of research and education. Computing resources include clusters and computational servers. To best accommodate research, education, and application development, the department maintains a heterogeneous desktop and workstation environment, as well as a state-of-the-art computer classroom. The department also maintains the Computational Intelligence Laboratory which provides high-powered visualization resources to the FSU community for research, analysis of large data collections, and research in machine learning and education.

Departmental Programs

The Department of Scientific Computing offers the Bachelor of Science (BS) degree program in Computational Science and a minor in computational science.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Computational Science

1. MAC X311 (4) Calculus I
2. MAC X312 (4) Calculus II
3. ISC X313 (3), or COP X014 (3), or COP XXXX (3) [an introductory programming course in C, C++, Java, or an equivalent high-level programming language] or other approved high-level programming course
4. BSC XXXXC or CHM XXXXC or GLY XXXXC or MET XXXXC or PHY XXXXC

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in computational science satisfy this requirement by earning a grade of "C–" or higher in ISC 3313 or COP 3014.

Academic Performance

A grade of "C–" or better is required in all courses required for the BS Degree in Computational Science.

All State Common Program Prerequisites listed as Term 1–4 Milestones must be completed with a "C" range (C–, C, or C+) grade or better. Students earning less than the necessary grade in any of these courses will be required to retake those courses until the standard is met. Note: retaking a course may delay graduation and incur increased fee liability (i.e., repeat course surcharge and excess credit surcharge).

A student who has received more than three unsatisfactory grades (U, F, D–, D, D+) in courses required for the major, excluding the Term 1–4 State Common Prerequisite milestone courses, taken after enrolling at FSU, will not be permitted to graduate with a degree in computational science.

Requirements for the Baccalaureate Degree in Computational Science

Note: Please review all University and college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Students should refer to the Department of Scientific Computing Web site at *http://www.sc.fsu.edu* or obtain, from the department office, revisions to the degree guidelines implemented since this printing.

Students should complete the State of Florida Common Program Prerequisites during their first two college years. In order to obtain final graduation clearance from the Department of Scientific Computing, all computational science majors are strongly encouraged to complete an exit survey.

Requirements for the BS Degree in Computational Science are provided as follows:

- ISC 3222 Symbolic and Numerical Computations (3)
- ISC 4220C Continuous Algorithms for Science Applications (4)
- ISC 4221C Discrete Algorithms for Science Applications (4)
- ISC 4223C Computational Methods for Discrete Problems (4)
- ISC 4232C Computational Methods for Continuous Problems (4)
- ISC 4304C Programming for Science Applications (4)
- ISC 4931r Junior Seminar in Scientific Computing (1–2)
- ISC 4932r Senior Seminar in Scientific Computing (1–2)
- ISC 4943r Practicum in Scientific Computing (3)
- MAS 3105 Applied Linear Algebra I (4)
- Approved statistics course designed for statistics majors: STA 3XXX (3) or STA 4XXX (3)
- Approved Department of Scientific Computing electives (9)
- Approved electives from the Department of Scientific Computing or other departments (9)

Requirements for a Minor in Computational Science

A minor in computational science requires a minimum of fourteen hours of coursework, including ISC 3222 and ISC 4304C. The student must take

at least one Computational Science Algorithms course (ISC 4220C or ISC 4221C) as well as a Computational Science course from the approved list. Students must also satisfy stated prerequisites before enrolling in each course accepted for minor credit. Grades below "C–" will not be accepted for minor credit.

Definition of Prefixes

CAP—Computer Applications
CGS—Computer General Studies
COP—Computer Programming
DIG—Digital Media
GFD—Geophysical Fluid Dynamics
IDC—Interdisciplinary Studies
ISC—Interdisciplinary Natural Science
MAD—Mathematics: Discrete
MAP—Mathematics Applied

Undergraduate Courses

Note: Additional undergraduate courses are being developed. Please refer to the Department of Scientific Computing Web site at *http://www.sc.fsu.edu* for an up to date list of undergraduate courses offered.

CGS 2821. Introduction to Website Design (3). This course teaches proper website design techniques to students from all degree programs. Topics include visual design and graphics, information architecture, usability and accessibility, communication, adaptation to audience, markup languages, and development tools and processes. Coursework is focused on applying Web site design principles and techniques to projects in the students' disciplines. The course is gauged for beginners who are computer competent; it does not teach computer programming.

CGS 2835. Interdisciplinary Web Development (3). Prerequisite: Computer fluency. This interdisciplinary course provides basic training in project management, communication, information architecture, interface design, graphic design, Web technologies, content editing, and subject-area expertise, thus empowering students across disciplines to effectively communicate their subject-area expertise through today's most popular publishing medium, the Web.

COP 2258. Problem Solving with Object Oriented Programming (3). This interdisciplinary course is designed for students who are interested in understanding the principles that govern Object-Oriented Programming (OOP) and software development in order to assist with problem-solving in their own disciplines. The course addresses algorithm building principles, problem-solving strategies, how to analyze problems to identify requirements, and how to design an object-oriented solution. Students design, write, and debug computer programs.

DIG 3725. Introduction to Game and Simulator Design (3). This course introduces basic techniques used to design and implement computer games and/or simulation environments. Topics include a historic overview of computer games and simulators, game documents, description and use of a game engine, practical modeling of objects and terrain, as well as the use of audio. Physics and artificial intelligence in games are covered briefly. Programming is based on a scripting language. The course is divided between lectures and practical assignments. Course topics are assimilated through the design of a 3D game to be designed and implemented in a team environment.

IDC 2930r. Special Topics in Interdisciplinary Computing – Beginning Level (1-4). This course covers current issues and topics in interdisciplinary computing that are not discussed in other courses. Topics vary. May be repeated within the same term, to a maximum of nine semester hours.

IDC 3931r. Special Topics in Interdisciplinary Computing – Intermediate Level (3). This course covers current issues and topics in interdisciplinary computing that are not discussed in other courses. Topics vary. May be repeated to a maximum of nine (9) credit hours.

ISC 1057. Computational Thinking (3). This course introduces students to the process of creating a representation of a task so that it can be performed by a computer. The course investigates strategies behind popular computational methods that are shaping our daily lives and our future. Students practice logical thinking by applying versions of these computational methods to problems in science and society.

ISC 2310. Introduction to Computational Thinking in Data Science with Python (3). Prerequisite: MAC 1105 or equivalent. This course investigates strategies behind popular computational methods used in data science. In addition, many of the algorithms are implemented using the programming language Python. No prior programming experience is required so the course presents the basics of the Python language as well as how to leverage Python's libraries to solve real-world problems in data science.

ISC 3222. Symbolic and Numerical Computations (3). Prerequisite: MAC 2311. This course introduces state-of-the-art software environments for solving scientific and engineering problems. Topics include solving simple problems in algebra and calculus; 2-D and 3-D graphics; non-linear function fitting and root- finding; basic procedural programming; methods for finding numerical solutions to DE's with applications to chemistry, biology, physics, and engineering.

ISC 3313. Introduction to Scientific Computing (3). Prerequisites: MAC 2311 or instructor permission. This course introduces the student to the science of computation. Topics cover algorithms for standard problems in computational science, as well as the basics of an object-oriented programming language, to facilitate the students' implementation of algorithms.

ISC 4220C. Continuous Algorithms for Science Applications (4). Prerequisite: MAC 2312. This course provides basic computational algorithms, including interpolation, approximation, integration, differentiation, and linear systems solution presented in the context of science problems. The laboratory component includes algorithm implementation for simple problems in the sciences and applying visualization software for interpretation of results.

ISC 4221C. Discrete Algorithms for Science Applications (4). Prerequisites: MAC 2311. This course offers stochastic algorithms, linear programming, optimization techniques, clustering and feature extraction presented in the context of science problems. The laboratory component includes algorithm implementation for simple problems in the sciences and applying visualization software for the interpretation of results.

ISC 4223C. Computational Methods for Discrete Problems (4). Prerequisites: MAS 3105 and ISC 4304C. This course describes several discrete problems arising in science applications, a survey of methods and tools for solving the problems on computers, and detailed studies of algorithms, and their use in science and engineering. The laboratory component illustrates the concepts learned in the context of science problems.

ISC 4232C. Computational Methods for Continuous Problems (4). Prerequisites: MAS 3105 and ISC 4304C. This course provides numerical discretization of differential equations and implementation for case studies drawn from several science areas. Finite-difference, finite-element, and spectral methods are introduced and standard software packages are used. The laboratory component aims to illustrate the concepts learned on a variety of application-driven problems.

ISC 4234C. Geometric Morphometrics: An Introduction to Modern Methods of Applied Shape Analysis (3). In this course, students learn about the mathematical, statistical, computational, and practical aspects of the quantitative analysis of shape. This course provides the basic background that will allow those who need to use such techniques to address research questions in their own work the means to effectively do so. It will also provide participants coming from a more computational or quantitative background the knowledge and understanding of the methods and problems of the field so that they might contribute to the development of new and/or improved methods of shape analysis.

ISC 4244C. Computer Applications in Psychology with Laboratory (4). Prerequisites: PSY 2012 (BSC 2010L, CGS 2100, CGS 2960, or ISC 3313) and PSY 3213C. This course gives the students practical knowledge of a powerful and flexible programming language with application to computational and research elements important to the field of psychology. Topics include complex searches, image and audio manipulation, data analysis, and all in the context of using a variety of software tools and packages.

ISC 4245C. Data Mining (3). Prerequisite: COP 3330, ISC 3222, ISC 3313 or ISC 4304; or instructor permission. In this course, students study concepts and techniques of data mining, including characterization and comparison, association rules mining, classification and prediction, cluster analysis, and mining complex types of data. Students also examine applications and trends in data mining.

ISC 4246C. Computational Forensics: An Introduction to Objective, Quantitative Tools and Methods for Forensic Science (3). Prerequisite: STA 2122, STA 2171, or equivalent, or instructor permission. In this course, students investigate some of the methods and protocols of Computational Forensics with an emphasis on the analysis and interpretation of physical evidence. Topics include stature, sex, and ancestry estimation from skeletal remains, DNA analysis, and finger print, toolmark, and bloodstain analysis. Students develop their own simple programs in an appropriate programming language to build and verify models and use existing programs to investigate the processing and analysis of physical evidence.

ISC 4302. Scientific Visualization (3). Prerequisites: MAC 1105 and MAC 2312. This course is an introduction to scientific visualization for large-scale computation and experimental data that covers the visualization methods and techniques, visualization results analysis and evaluation, and visualization practice. It teaches students the techniques for creating compelling visual representations of 2D and 3D scientific data sets. The basic concepts, data structures, and algorithms in scientific visualization are presented and applied using datasets from different disciplines. Classic visualization techniques for scalar, vector, and tensor data such as marching cubes, ray casting, splatting, streamline, and line integral convolution and more, are introduced along with popular visualization software.

ISC 4304C. Programming for Science Applications (4). Prerequisite: MAC 2311. This course provides knowledge of a scripting language that serves as a front-end to popular packages and frameworks, along with a compiled language such as (C++). Students study and practice scientific programming with the scripting language and practice how to interface it with a more traditional programming language to improve the speed of the programs developed in the course. In the laboratory component of this course, students apply the concepts learned in class. Students analyze large data sets by translating from mathematical expressions and algorithms to working computer code that is then used to visualize and summarize the results.

ISC 4420. Introduction to Bioinformatics (4). This course provides a quantitative framework for understanding how the genomic sequence and its variations affect the phenotype. The course is designed for biologists and biochemists seeking to improve quantitative data interpretation skills, and for mathematicians, computer scientists and other quantitative scientists seeking to learn more about computational biology. Lab exercises are designed to reinforce classroom learning.

ISC 4907r. Senior Directed Individual Study in Scientific Computation (1–4). Prerequisite: Instructor permission. This course is available so that a faculty member can design an individualized course of study in an area of computational science for a student, in cases where such a class is not available in the current curriculum. The student and faculty member are responsible for preparing a syllabus of readings, exercises, and evaluations. May be repeated to a maximum of twelve semester hours.

ISC 4931r. Junior Seminar in Scientific Computing (1–2). (S/U grade only.) Prerequisite: Junior standing (sixty plus hours). This is a special topics course in computational science. May be repeated two times to a maximum of four semester hours, with a maximum of only two semester hours credit allowed to be applied to the Computational Science degree.

ISC 4932r. Senior Seminar in Scientific Computing (1–2). (S/U grade only.) Prerequisite: Senior standing (ninety plus hours). This is a special topics course in computational science. May be repeated one time to a maximum of four semester hours, with a maximum of only one semester hour credit allowed to be applied to the Computational Science degree.

ISC 4933r. Selected Topics in Computational Science (3). Prerequisite: Instructor permission. This course covers computational science topics not covered by existing courses. May be repeated within the same term, to a maximum of twelve semester hours.

ISC 4943r. Practicum in Scientific Computing (3). Prerequisite: Senior standing (ninety-plus hours). This practicum allows students to work individually with a faculty member throughout the semester and meet with the instructor periodically throughout the semester to make progress reports. Written and oral presentations of work are required. May be repeated to a maximum of six semester hours, with a maximum of only three semester hours credit allowed to be applied to the Computational Science degree.

ISC 4971r. Honors Thesis (3). In this course, students work closely with a faculty member and investigate an original idea in the area of scientific computing, study the background, implications, implementation, and applications, prepare a final publication-quality thesis based on original research, and defend it orally before a committee. May be repeated to a maximum of nine semester hours.

Note: Many courses offered at the graduate level include a "4933" section specifically designed to allow motivated undergraduates to participate. Such courses have included Computational Evolutionary Biology, Genomic Sequences and Analysis, Datamining, and Verification and Validation in Computational Science. For details about these courses, see the graduate course listings.

Graduate Courses

CAP 5771. Data Mining (3).
GFD 6905r. Directed Individual Study (3). (S/U grade only.)
GFD 6915r. Supervised Research (1–5). (S/U grade only.)
GFD 6925. Geophysical Fluid Dynamics Colloquium (1). (S/U grade only.)
GFD 6935r. Seminar (1–2).
ISC 5225. Molecular Dynamics: Algorithms and Applications (3).
ISC 5226. Numerical Methods for Earth and Environmental Sciences (3).
ISC 5227. Survey of Numerical Partial Differential Equations (3).
ISC 5228. Monte Carlo Methods (3).
ISC 5236. Applied Groundwater Modeling (3).
ISC 5237. Uncertainty Analysis in Computational Science (3).
ISC 5238C. Scientific Computing for Integral Equation Methods (3).
ISC 5247C. Geometric Morphometrics: An Introduction to Modern Methods of Applied Shape Analysis (3).
ISC 5249C. Computational Forensics: An Introduction to Objective, Quantitative Tools and Methods for Forensic Science (3).
ISC 5305. Scientific Programming (3).
ISC 5307. Scientific Visualization (3).
ISC 5308. Computational Aspects of Data Assimilation (3).
ISC 5314. Verification and Validation in Computational Science (3).
ISC 5315. Applied Computational Science I (4).
ISC 5316. Applied Computational Science II (4).
ISC 5317. Computational Evolutionary Biology (4).
ISC 5318. High-Performance Computing (3).
ISC 5326. Introduction to Game and Simulation Design (3).
ISC 5415. Computational Space Physics (3).
ISC 5425. Introduction to Bioinformatics (4).
ISC 5473. Introduction to Density Functional Theory (3).
ISC 5906r. Directed Individual Study in Computational Science (1–12).
ISC 5907r. Directed Individual Study in Computational Science (1–3). (S/U grade only.)
ISC 5934. Introductory Seminar on Research in Computational Science (1). (S/U grade only.)
ISC 5935r. Selected Topics in Computational Science (3–12). (S/U grade only.)
ISC 5939r. Advanced Graduate Student Seminar in Computational Science (1–3). (S/U grade only.)
ISC 5948r. Graduate Internship in Computational Science (3–6). (S/U grade only.)
MAD 5420. Numerical Optimization (3).
MAD 5427. Numerical Optimal Control of Partial Differential Equations (3).
MAP 5395. Finite Element Methods (3).

For listings relating to graduate coursework for theses, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Interdisciplinary Program in SOCIAL SCIENCE

College of Social Sciences and Public Policy

Website: *http://www.coss.fsu.edu/iss/*
Director: Robert E. Crew, Jr., Office of the Dean, College of Social Sciences and Public Policy

The Interdisciplinary Program in Social Science (ISS) provides a multidisciplinary view of contemporary social issues and problems. The program offers students an opportunity to draw on the several disciplines of social science as they seek an understanding of public affairs and answers to questions about society. It is flexible so that students may pursue their own individual specialized and pre-professional interests. Special interdisciplinary concentrations in urban studies, public policy, public service, law and society, social entrepreneurship and innovation, and environmental studies are offered.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in the interdisciplinary program in social science satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Social Sciences, General

1. XXX XXXX: two introductory courses for a total of six credit hours in a social science discipline

Internet Supported Distance Learning

A bachelor's degree program is available that enables students with an AA degree to earn an FSU degree without moving to Tallahassee. To be admitted, students are strongly recommended to have completed the University's oral communication competency requirement and the computer skills competency requirement. Due to limited course availability, it is strongly suggested that students contact the distance learning advisor to review course planning options, prior to admission. For more information, visit *https://distance.fsu.edu/support* or contact the program advisor.

Requirements

Major program of studies at FSU: forty-three hours

A major in the interdisciplinary program requires forty-three semester hours. For the general option, work must be taken in at least three departments within the program. Participating departments include: anthropology, economics, geography, history, political science, public administration, sociology, and urban and regional planning. Up to nine of the required forty-three hours may also apply to General Education. Twenty-one hours must be taken in courses numbered above 2999. A minimum cumulative GPA of 2.0 on all coursework applied to the major must be maintained. All coursework within the major must be passed with a grade of "D" or higher.

Required coursework:

Students must complete the required course, ISS 4304 Contemporary Social Problems and Policy Solutions with a grade of "C" or higher. This course is applicable to any departmental concentration area within the structure of the major. Students must also complete the required course, ISS 3923 Interdisciplinary Forum, with a grade of "S".

Interdisciplinary Social Science General Option (forty-three hours)

Students must have:

1. Satisfactory completion of the one-hour forum
2. A primary concentration of eighteen hours in one participating department
3. A secondary concentration of twelve hours in a second participating department and
4. The remaining twelve hours distributed among any of the remaining participating departments that are not being used for the primary or secondary concentrations

Interdisciplinary Social Science Specialization Option (forty-three hours)

Alternatively, students may complete the requirements of interdisciplinary specializations in law and society, public policy, public service, urban studies, social innovation and entrepreneurship, or environmental studies. For further details, speak with an advisor.

Degrees

The courses of study offered by the interdisciplinary program in social science lead to the Bachelor of Arts (BA) and Bachelor of Science (BS) degrees.

Requirements for a Minor in Social Sciences for Psychology Majors at the Panama City Campus

A minor in the interdisciplinary program in social sciences is available for psychology students at the Panama City campus. Students may obtain the minor by successfully completing a total of fifteen semester hours of coursework in interdisciplinary social science participating departments, which include interdisciplinary social science, anthropology, economics, geography, history, political science, public administration, sociology, and urban and regional planning.

Honors in the Major

The ISS program participates in the upper-division honors in the major. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

IDS—Interdisciplinary Studies
ISS—Interdisciplinary Social Sciences

Undergraduate Courses

IDS 2472. Freshman Seminar (3). This seminar course aims to advance library research, writing skills, and critical thinking skills among lower division students. Students learn to develop and improve their capacity to communicate complex ideas about a topic of their choosing in speech and in writing through participation in the seminar and research activities.

IDS 3342. Boomers and Millennials: Changing Generations (3). In this course, students are guided through original empirical research to appreciate the sources of changes across contrasting generations, and to follow up the impact of generational change for a wide range of social, economic and political dimensions of everyday life. Research projects compare different generations at equivalent points in the life cycle.

ISS 1921r. Colloquium in Social Science and Public Affairs (1). Corequisite: Students must enroll in the Social Sciences/Public Policy LLC Program. This course provides a venue for discussing key issues and controversies that students are likely to encounter as they pursue a major in one of the social sciences. Students learn critical issues in debating public policy issues while also gaining an appreciation for topics that shape everyday life. Designed for students enrolled in the Social Science and Public Policy Living-Learning Community (SSPPLLC). May be repeated to a maximum of two semester hours.

ISS 2932r. Seminar in Social Science and Public Affairs (3). Corequisite: Students must enroll in Social Sciences/Public Policy LLC Program. This course examines key issues and controversies that students are likely to encounter as they pursue a major in one of the social sciences. Topics vary, and look at major fields of study within the Social Sciences. Designed for students enrolled in the Social Sciences and Public Policy Living-Learning Community (SSPPLLC). May be repeated to a maximum of twelve semester hours.

ISS 2937r. Social Science Honors Seminar (3). May be repeated to a maximum of nine semester hours.

ISS 3241. Foundations of Social Entrepreneurship and Innovations (3). This course provides a comprehensive overview of the emerging field of social entrepreneurship and innovation, examining how it promotes innovative, impactful, and sustainable solutions to social and environmental problems at the local, national, and international levels. The course looks at how the field is defined and expressed in three essential contexts: innovation and impact across the public, private, and citizen sectors; social enterprise within the context of nonprofit, for-profit, and hybrid organizations; and social transformation throughout an entire system.

ISS 3330. Interdisciplinary Social Science Research (3). This course provides an overview of how to study the social world scientifically. Rather than simply present students with facts about social problems, students learn to ask rigorous questions and think about the social world in a more scientific manner. This course introduces students to the scientific method and how it applies across the social science disciplines.

ISS 3923. Interdisciplinary Forum (1). (S/U grade only.) Interdisciplinary Social Science Forum is an introductory course for ISS majors to explore and share advising, career, and academic experiences as members of the field of interdisciplinary studies. Students will obtain an orientation to professional and academic options for ISS students via applications-based curriculum, visiting lectures, and workshops.

ISS 4014. Evidence Based Public Policy (3). This course is an interdisciplinary public policy course that emphasizes the social science concepts which provide fundamental insights into how public policy is created through collective action and how it can succeed or fail by the actions of individuals and institutions.

ISS 4164. Intersections, Power, & Policy (3). Prerequisite: PUP 3002 recommended. This course provides the theoretical study of race, class, and gender from across social science disciplines and the methodological tools for the evaluation of public policy. The course further develops student skills in the critical evaluation of public policy and exposes students to diverse contemporary public policies ranging from congressional legislation to executive orders in Florida as well as nationally.

ISS 4304. Contemporary Social Problems (3). This course is designed to introduce the benefits and methods of interdisciplinary research and study. This course uses multiple and interrelated perspectives to identify and explore social issues and problems. Students are guided through the process of building interdisciplinary perspectives to maximize cognitive skills, critical thinking and problem solving skills.

ISS 4905r. Directed Individual Study (1–3). May be repeated to a maximum of six semester hours.

ISS 4906r. Directed Individual Study (3). May be repeated to a maximum of six semester hours.

ISS 4907r. Honors Work (1–6). May be repeated to a maximum of nine semester hours.

ISS 4931r. Special Topics (1–3). May be repeated with permission of the Director of the Interdisciplinary Program in Social Science to a maximum of eighteen semester hours.

ISS 4935. Advanced Public Policy Seminar (3). (S/U grade only.) This seminar is an application of critical policy dialogue. The seminar is highly participatory and students address policy analysis in various policy areas in a cross-disciplinary environment. The seminar is available to students participating in the Public Policy Certificate program as Interdisciplinary Social Science majors only.

ISS 4944r. Internship (3–6). In this internship, students earn academic credit through a variety of employment situations related to their academic interest. Students engage in active analysis and critical reflection of academic and professional experiences under faculty supervision. May be repeated to a maximum of six (6) credit hours.

Graduate Courses

HSC 5930r. Special Topics in Social Science (1–3).

PHC 5001. Public Health Epidemiology (3).

PHC 5912. Public Health Capstone Course (3).

PHC 5945. Internship (3). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

SOCIAL WORK
Undergraduate Programs

College of Social Work

Website: *http://csw.fsu.edu/*

Professors: Abell, Ai, Clark, Radey, Randolph, Smith, Thyer, Wilke; **Associate Professors:** Boel-Studt, T. Gomory, Lacasse, Munn, Noel, Petscher, Pettus-Davis, Schelbe, Tripodi; **Assistant Professors:** Killian, Mathias, Renn; **Teaching Faculty III:** Ashmore, Boone, Deckerhoff, Dwyer-Lee, F. Gomory, MacDill, Stanley; **Teaching Faculty II:**, Kelley, Kintz, Verano; **Teaching Faculty I:** Edwards, Goldman, Jackson, Johnson, Osborne; **Research Faculty I:** Oehme, Pryce

The College of Social Work offers programs of study leading to: (1) the Bachelor of Social Work (BSW) degree, designed to enable students to offer direct services to individuals, families, groups, and communities at the generalist level of social work practice; (2) the Master of Social Work (MSW) degree, designed to develop advanced skills to engage in professional social work practice with concentrations in either clinical social work or social policy and administration; and (3) the Doctor of Philosophy (PhD) degree, which is designed to advance the social work profession through the development of researchers/scholars and educators.

Particular attention in all of our course offerings is given to the application of practice without discrimination and with respect, knowledge, and skills related to clients' age, class, color, culture, disability, ethnicity, family structure, gender, marital status, national origin, race, religion, sex, and sexual orientation.

For complete details of undergraduate degree requirements, plus a description of the College of Social Work, its opportunities, and available financial assistance, refer to the "College of Social Work" chapter of this *General Bulletin*, or our Web site at *http://csw.fsu.edu*. Refer to the *Graduate Bulletin* for graduate programs.

Minor in Social Welfare

A minor in social welfare requires twelve hours in social work courses with a grade of "C–" or better in each course; SOW 3203, SOW 3350, and two SOW electives. At least six hours must be completed at FSU. An application is required for the minor and to be registered for SOW 3350 and SOW 3203. Please note that the minor does not qualify a student to apply for advanced standing graduate programs in social work or for professional certification or licensure.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in social work satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or an equivalent course approved by the program director.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Social Work, General

1. POS X041 or POS X042 or PUP X099
2. BSC X005 or BSC X085 or BSC X010 or PCB X099
3. ECO X000 or ECO X023 or ECOX013
4. PSY X012 or PSY X020
5. SYG X000 or SYG X010

Definition of Prefix

SOW—Social Work

Undergraduate Courses

SOW 1054r. Human Services Experience (0-1). (S/U grade only.) This course entails a direct human service experience in a social services agency or community organization or program. Thirty hours of volunteer services are required per credit hour. Through the volunteer experience, students are able to observe the application of social work knowledge and skills within a human service program and to learn about the role social workers play in generalist practice settings with systems of all sizes. May be repeated to a maximum of two (2) credit hours.

SOW 3203. The Social Work Profession (3). In this course, students begin to identify with the social work profession, its history, mission, and core values, and conduct themselves in accordance with the ethical principles that guide professional practice. Students also learn how the social work profession engages in policy and practice to address issues of social and economic well-being. They begin to recognize the social, political, economic, and environmental influences on client systems of all sizes and apply them to the conduct of social work practice.

SOW 3350. Interviewing and Documentation (3). This course covers the basic elements of interviewing and documentation utilizing the values and ethics of the social work profession. Students develop the foundation skills such as rapport-building, information-gathering, and record-keeping in order to conduct interviews with clients.

SOW 3933. Seminar in Global Social Work Ethics (3). This course gives emphasis to factors driving and arising from social, political, and cultural issues, and to potential ethical conflicts associated with them. Students consider the conceptual and theoretical bases for ethical concerns, including their implications for social welfare practice and policy decisions. The course identifies and critiques ethical dilemmas, with consideration for resolving social justice and social welfare service delivery challenges arising when competing interests collide. Students consider ways in which ethical principles vary depending on the auspice or body from which they arise, comparing and contrasting priorities and values of global, national, or ethnically or religiously identified professional associations.

SOW 4104. Human Behavior and the Social Environment (3). This course focuses on reciprocal relationships between human behavior and social environments. Content includes system theory, an ecological perspective, and life course theories that focus on human development at the individual and family level, including interactions between and among systems of all sizes, including groups, societies, and economic systems.

SOW 4108. Women's Issues and Social Work (3). This course is designed to acquaint students with the factors that affect women throughout life and the role that social work plays in addressing these issues.

SOW 4152. Human Sexuality (3). This course is a survey of issues and problems associated with human sexuality, intended for social workers and others in helping professions. Emphasis is placed on sexually oppressed groups, sexual life cycle from a psychosocial perspective, and student's attitudes and values regarding sexuality.

SOW 4232. Social Welfare Policies and Programs (3). This course provides a beginning understanding of the relationship between social welfare and social policy from a social work perspective. Students engage in policy practice to address social and economic well-being and to deliver effective social work services across diverse populations. Attention is given to critical analysis of the role that social work and social welfare policies and programs play in advancing human rights and social and economic justice.

SOW 4247. Homelessness in America: People, Programs and Policies (3). This course covers poverty in the United States, with particular emphasis on homelessness. It includes content related to values and ethics in programs and policies as well as cultural diversity among people in poverty. Particular attention to those who suffer from poverty and other societal oppression, such as those who are also people of color, women, gays, lesbians, HIV positive, or disabled.

SOW 4290. Ethical Issues in Social Work Practice (3). This course provides students with a framework of knowledge and skills to prepare them for effective and ethical decision making that is congruent with codes of ethics and standard practice in the social-work profession. Also explored are the principles of ethical decision making and various value systems.

SOW 4323. Social Work Practice with Groups (3). Prerequisite: SOW 4341. This course focuses on the development of the generalist practice skills of engagement, assessment, intervention, and evaluation with social work client and community groups. This course covers practice skills that contribute to group effectiveness, including composition, structure, dynamics, goal setting, and evaluation. Course content also includes examining the empirical base of a range of theories and models for social work with groups.

SOW 4341. Social Work Practice with Individuals and Families (3). Prerequisite: SOW 3350. This course focuses on the development of the generalist practice skills of engagement, assessment, intervention, and evaluation with individuals and families in social work. The empirical bases of a range of theories and models of social work practice are examined, along with applications to generalist social work practice. Ways to promote social and economic justice while practicing as a social worker are also discussed.

SOW 4360. Social Work Practice with Communities and Organizations (3). Prerequisites: SOW 3350 and SOW 4341. This is one of three courses in the practice foundation curriculum. The course is designed to introduce students to a range of theories and models of social work practice from an ecological framework.

SOW 4403. Introduction to Social Work Research (3). This course introduces students to qualitative and quantitative research methods in order to provide an understanding of a scientific, analytic, and ethical approach to building knowledge for practice. Students' mastery of course content prepares them to develop, use, and effectively communicate empirically-based knowledge. Research knowledge is used by students to provide high-quality services; to initiate change; to improve practice, policy, and social service delivery; and to evaluate their own practice from an evidence-based perspective.

SOW 4414. Statistics for Social Workers (3). This course introduces students to quantitative tools used to describe and interpret data used in social work practice, research, and policy formation. The course content prepares students to understand, interpret, and conduct the statistical analyses necessary for the evaluation of effective social work practice, social policies, and social programs. Students learn to plan and conduct analyses guided by an understanding of social work values and ethics. Specific topics to be covered in class include descriptive statistics, basic probability, confidence intervals, hypothesis testing, analysis of variance, correlation, and regression.

SOW 4454. Grant Writing and Grant Management (3). This course covers the basics of proposals: purpose statements, background and justification, aims or objectives, personnel, timeline, methods, budget, and evaluation, and how to effectively manage grants once they are funded. The needs of disenfranchised groups or communities are discussed in this course, along with the particulars of proposals that may be most effective in meeting such needs.

SOW 4510r. Undergraduate Field Instruction (6–12). (S/U grade only.) Prerequisites: A 3.0 GPA in social work courses and completion of all the required social work courses and prerequisites. Corequisite: SOW 4522. In this course, supervised direct social work experience is provided in various human service settings. May be repeated to a maximum of twelve semester hours.

SOW 4522. Integrative Field Seminar (2). Corequisite: SOW 4510. This course assists students in the integration of their social work courses with social work practice. The course utilizes an ecosystems perspective, focusing on the student's ability to apply the knowledge and skills of generalist social work practice to systems of all sizes. This course has been approved for the Liberal Studies requirements for Scholarship-in-Practice and thus is designed to help students become applied and lifelong learners. Majors only.

SOW 4602. Social Work in Health Settings (3). This course focuses on social work practice in health settings from a "person-in-environment" perspective, preparing students with an understanding of the roles that social workers play in health settings, the structure of health care delivery systems, organizational and professional ethics and standards, challenges we face in health care policy, and patient issues and how to help to address these issues. Specific knowledge and skills in a health care setting are addressed, including biopsychosocial assessments, chart documentation, treatment planning, and discharge planning.

SOW 4615. Family Violence Across the Lifespan (3). This course provides an ecological perspective emphasizing the interconnections between individuals experiencing violence and their social environments. Emphasis is placed upon broad coverage of all-important aspects of child abuse, incest, intimate partner violence, rape, and elder abuse. This course is appropriate for students who wish to gain skill in detecting and responding to incest situations for clients, sexual assault survivors, and victims of intimate partner violence or elder abuse.

SOW 4620. Diversity and Social Justice (3). This course enhances student understanding of human diversity and prepares students to engage in a lifetime pursuit of cultural competence. Students are encouraged to reflect upon and discuss the intricacies of their own particular dominant and/or minority social statuses and their relations to other individuals and communities. The course is designed to train students to apply theoretical frameworks to the forms and mechanisms associated with diversity, differences, and oppression. Emphasis is placed on enhancing respectful and empathic communication, and on the advancement of social and economic justice and human rights in national and global contexts.

SOW 4633. The Social Worker in the Public School System (3). This course introduces students to school social work practice and related issues, such as biased educational practices, behavior, economic constraints, physical and emotional problems, and community and family adversity.

SOW 4645. Gerontological Social Work (3). This course introduces students to social gerontology and gerontological social work. Topics cover the demography of aging and the physical, cognitive, and psychosocial aspects of aging; social and health care policies that impact older persons, their caregivers, and the aging network of services; the impact of ageism, sexism, racism, ablebodyism, beautism, and homophobia on our work with older people; as well as the promotion of dignity, self-determination, and socio-economic justice for older people.

SOW 4650. Child Welfare Practice (3). This course provides a framework of values, knowledge and skills necessary to practice with vulnerable children and their families. The major focus is on social work in public child welfare in the State of Florida. The course utilizes an ecosystem perspective for understanding and assessing the special needs of at-risk children and families. Specific attention is on assessing families and children using the State of Florida's Safety Decision Making Method and other family assessment instruments.

SOW 4658. Child Maltreatment and Child Welfare (3). This course provides students with knowledge and skills related to the theory, research, and implications of child and adolescent maltreatment for child development and psychopathology. Course content is presented within the context of child welfare practice and social work with children and adolescents in public agencies and programs. Particular attention is given to common psychological disorders that result from maltreatment and accompanying treatment issues. Issues related to individuals, families, groups, and communities are covered and attention is given to working with ethnic minorities, women, gays and lesbians, and persons with disabilities. Particular attention is given to federal and state child welfare statutes including Chapter 39, Florida statutes including the Adoption and Safe Families Act and the range of services provided by the Department of Children and Families and other agencies.

SOW 4665. Theory and Practice of Social Work in Criminal Justice Settings (3). This course focuses on criminal theories and on the development of both evidence-based and generalist social-work practice skills pertinent to working in criminal-justice settings, alongside the individuals in the criminal-justice system. Focus is placed on theory and practice for social workers in corrections, prisoner-reentry programs, and juvenile-justice settings. The course covers the philosophy and practice of restorative justice and victim-offender mediation programs, emphasizing the needs of both offenders and victims.

SOW 4702. Substance Abuse and Misuse (3). This course provides fundamental knowledge of the aspects of substance misuse in American society. Students examine the etiology and epidemiology of substance misuse, treatment approaches and major policies and programs relevant to the prevention and treatment of substance misuse. Special attention is given to substance use and misuse among specific populations including adolescents, older adults, women, racial and ethnic minorities, gays and lesbians and persons with disabilities. The effect of substance misuse on families, communities and social systems are examined utilizing a systems approach.

SOW 4784. International Social Work and Social Welfare (3). This course prepares students for international social-work practice and for transitional work with immigrants, refugees, international migrants, etc. The course introduces international perspectives in the social-work field and offers varied examples of social-work practice in the U.S., and in Western, Central European, and Caribbean nations and examines the impact of the global interdependence on social-work practice and policy and helps students learn to critically analyze varied practice approaches utilized in dealing with international welfare issues.

SOW 4905r. Directed Individual Study (1–4). Prerequisites: Eight credit hours in social work, a 2.75 GPA, and instructor permission. May be repeated to a maximum of eight semester hours. See departmental guidelines.

SOW 4911r. Honors Work in Social Work (1–6). Prerequisites: Junior standing, a 3.2 or higher GPA, and at least one semester of twelve or more semester hours; junior college transfers with membership in Phi Theta Kappa may be admitted directly. This course consists of a thesis, completed over a period of two or three semesters, based on traditional library research and critical analysis. May be repeated to a maximum of nine semester hours.

SOW 4935r. Seminar in Social Work: Selected Topics (3). May be repeated to a maximum of twelve semester hours as topics change.

SOW 4940. International Community Engagement (2). (S/U grade only.) This course utilizes a service learning experience in an international social services organization to introduce students to international social work practice and a range of global social issues that shape human welfare and social development.

Graduate Courses

SOW 5034. The Social Work Profession (3).
SOW 5105. Human Behavior and the Social Environment I (3).
SOW 5109. Women's Issues and Social Work (3).
SOW 5125. Psychopathology in Clinical Practice (3).
SOW 5128. Cognitive-Behavioral Social Work Practice (3).
SOW 5153. Human Sexuality (3).
SOW 5235. Social Welfare Policy and Services (3).
SOW 5238. Advanced Policy Analysis (3).
SOW 5248. Homelessness in America: Peoples, Program and Policies (3).
SOW 5281. Ethics in Social Work Practice (3).
SOW 5282. Legislative Advocacy (3).
SOW 5308. Social Work Practice (3).
SOW 5324. Social Work Practice with Groups and Communities (3).
SOW 5325. Advanced Group Practice and Treatment (3).
SOW 5334. Organization Development (3).
SOW 5340. Theory and Practice of Poetry Therapy (3).
SOW 5353. Marital and Couple Counseling in Social Work Practice (3).
SOW 5367. Theory and Practice of Crisis Intervention (3).
SOW 5369. Integrative Seminar in Advanced Social Work Practice (3).
SOW 5376. Budgeting and Finances in the Social Services (3).
SOW 5377. Personnel Administration in the Social Services (3).
SOW 5404. Introduction to Social Work Research (3).
SOW 5432. Evaluation of Social Work Practice (3).
SOW 5435. Social Program Evaluation (3).
SOW 5455. Grant Writing and Grant Management (3).
SOW 5532r. Graduate Field Instruction I (5–10). (S/U grade only.)
SOW 5535r. Graduate Field Instruction II (6–12). (S/U grade only.)
SOW 5537r. Field Instruction: Special Placement (3–12). (S/U grade only.)
SOW 5603. Social Work in Health Settings (3).
SOW 5611. Family Counseling in Social Work (3).
SOW 5614. Family Violence Across the Life Span (3).
SOW 5635. The Social Worker in the Public School System (3).
SOW 5646. Gerontological Social Work (3).
SOW 5648. Physical Aspects of Aging (3).
SOW 5655. Social Work with Children and Adolescents (3).
SOW 5656. Child Welfare Practice (3).
SOW 5659. Child Maltreatment and Child Welfare (3).
SOW 5666. Theory and Practice of Social Work in Criminal Justice Settings (3).
SOW 5712. Substance Abuse and Misuse (3).
SOW 5745. Seminar on Loss and Bereavement (3).
SOW 5785. International Social Work and Social Welfare (3).
SOW 5807. Clinical Practice (3).
SOW 5908r. Directed Individual Study (1–4). (S/U grade only.)
SOW 5938r. Social Work Seminars: Selected Topics (3).
SOW 5943. International Community Engagement (2). (S/U grade only.)
SOW 6358. Measurement in Social Work Research I (3).
SOW 6407. Survey Research Methods (3).
SOW 6414. Introduction to Statistics in Applied Social Research (3).
SOW 6418. Introduction to Linear Modeling for Applied Social Research (3).
SOW 6466. Social Work Research Using Secondary Data (3).
SOW 6490. Introduction to Scholarly Writing (3).
SOW 6492. Foundation Research Methods (3).
SOW 6494. Advanced Research Methods (3).
SOW 6495. Systematic Reviews in Social Work Research (3).
SOW 6496. Qualitative Research Methods (3).
SOW 6499. Intervention Research in Social Work (3).
SOW 6755. Theories and Models of Social Work Research (3).
SOW 6775. Professional Issues in Social Work (3).
SOW 6904r. Reading in Social Work/Social Welfare (1–6). (S/U grade only.)
SOW 6909r. Directed Individual Study (1–6). (S/U grade only.)
SOW 6916r. Supervised Research (1–6). (S/U grade only.)
SOW 6930. Teaching Seminar and Practicum (3). (S/U grade only.)
SOW 6938r. Selected Topics in Social Work (3).
SOW 6942r. Supervised Teaching (1–3). (S/U grade only.)
SOW 6945r. Practicum in Applied Research (2–6). (S/U grade only.)
SOW 6960. Preliminary Preparation (0–12). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of SOCIOLOGY

College of Social Sciences and Public Policy

Website: *https://coss.fsu.edu/sociology/home*

Chair: Kathryn Tillman; **Professors:** Barrett, Brewster, Burdette, Carlson, Padavic, Reynolds, Rohlinger, Schrock, J. Taylor, M. Taylor, Tillman, Ueno; **Associate Professors:** Carr, Davis, Sanyal; **Assistant Professors:** Buggs, Hauer, Homan, McFarland, Singh, Waggoner; **Teaching Faculty III:** Lessan, Munson; **Teaching Faculty I:** Roach; **Professors Emeriti:** Eberstein, Fendrich, Ford, Hardy, Hazelrigg, Isaac, Kinloch, Martin, Nam, Orcutt, Quadagno; **Affiliate Faculty:** Chiricos, Gundogan, Miles, Milton, Perez-Felkner, Schwabe

Few fields have as broad a scope as sociology, the study of human groups and social life. The sociology major's interests range from the nuclear family to the many types of societies, from crime to religion, from the divisions of race and class to the integrating symbols of culture, from the sociology of occupations to politics. At Florida State University, the Department of Sociology examines all of these matters and others. Current research is ongoing in such diverse areas as gender, sexuality, race and ethnicity, social movements, health and aging, and population.

There are several reasons for pursuing a sociology degree. First, sociology addresses circumstances and events that affect students' lives today and in the future. Second, a sociology major provides a broad-based, liberal arts education that promotes understanding and sharpens analytical skills. Third, a sociology major is excellent preparation for a career in professions that require an ability to think and write analytically. Sociology graduates have found employment in academia, business, law, medicine, politics, and government. Fourth, sociology prepares students for advanced graduate work in anticipation of careers in research and teaching.

Sociology majors learn how to analyze the hiring, termination, and promotional practices of organizations; anticipate the changes humans will undergo in their life; practice market research; detect social trends; analyze statistical data; evaluate public policies; assess the impact of technological innovations; interpret political and social change in the world system; conduct surveys and interpret their results; project fertility and mortality patterns; and appreciate classic theories of social order and change.

The facilities and resources available to sociology majors include access to the microcomputer lab in the College of Social Sciences and Public Policy and opportunities to work closely with faculty on research projects. The department provides a wide range of courses on important aspects of social life, leading to greater understanding of human society and a variety of skills that are increasingly essential for citizens in a postindustrial, information-based, and rapidly changing global society.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in sociology satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions necessary for admission into this upper-division degree program:

Sociology

1. SYA XXXX or SYD XXXX or SYG XXXX or SYO XXXX or SYP XXXX
2. SYA XXXX or SYD XXXX or SYG XXXX or SYO XXXX or SYP XXXX

Core Program

For acceptance as a sociology major, students must have successfully completed Florida State University's math and English requirements for liberal studies with a grade point average (GPA) of 2.0 or better and meet "mapping" requirements. Sociology majors are encouraged to complete all liberal studies requirements before admission to the College of Social Sciences and Public Policy. To fulfill the computer literacy requirement, students should complete CGS 2060, CGS 2064, or CGS 2100, with a grade of "C–" or better.

Degrees

Students may earn a Bachelor of Arts (BA) or a Bachelor of Science (BS) degree in sociology.

Major

Students must complete thirty semester hours in sociology, with a grade of "C–" or better in each course, including: SYA 4010 Sociological Theory, SYA 4300 Methods of Social Research, and SYA 4400 Social Statistics.

Transfer students must earn a minimum of fifteen semester hours in sociology at Florida State University. Transfer of the required upper-division courses (SYA 4010, 4300, and 4400) is subject to the approval of the department chair or Director of Undergraduate Studies.

Sociology majors must also complete a minor in another discipline. The number of hours for this minor is determined by the department in which the student minors.

Minor

General Minor in Sociology

A minor in Sociology may be earned by completing any fifteen semester hours in sociology with a grade of "C–" or better in each course. At least nine of the fifteen semester hours must be completed at Florida State University.

Minor in the Sociology of Health and Aging

The minor in the Sociology of Health and Aging consists of fifteen semester hours of coursework in Sociology. All courses must be completed with a grade of "C–" or better. At least nine of the fifteen semester hours must be completed at Florida State University.

The fifteen credits for this minor must be comprised of any of the following courses, which are offered at least once per year:

SYA	**4930r**	Selected Topics in Sociology (3) (maximum of six hours of SYA 4930)
SYD	**3020**	Population and Society (3)
SYO	**4402**	Medical Sociology (3)
SYP	**3730**	Aging and the Life Course (3)
SYP	**4550**	Alcohol and Drug Problems (3)

Honors in the Major

The Department of Sociology offers a program of honors in the major to encourage talented juniors and seniors to undertake independent and original research as part of their undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

DEM—Demography
IDH—Interdisciplinary Honors
IDS—Interdisciplinary Studies
SYA—Sociological Analysis
SYD—Sociology of Demography/Area Studies/Sociological Minorities
SYG—Sociology: General
SYO—Social Organization
SYP—Social Processes

Undergraduate Courses

Introductory Course

SYG 1000. Introductory Sociology (3). This course is an introduction to the fundamentals of sociology. In the course, emphasis is placed on exposure to the basic findings of empirical research studies in a wide range of areas traditionally examined by sociologists.

Sociological Theory and Methods of Research

SYA 3741. Sociology of Death and Dying (3). This course explores the structure of human response to death, dying, and bereavement with a focus on sociocultural and interpersonal context. The course explores how cultural and medical factors shape experience of a "good death," grief over the life course, functions of funeral practices, and death-related ethical debates such as physician assisted suicide.

SYA 4010. Sociological Theory (3). This course introduces the student to the kind of theory that has developed in the field of sociology since its foundation, moving through to the contemporary scene. Major theoretical fields, major theorists, and dominant theoretical issues that continue to be part of the sociological approach to explanation are covered. This is a required course for sociology majors.

SYA 4300. Methods of Social Research (3). This course is a broad coverage of research design, data collection, and data analysis. This is a required course for sociology majors.

SYA 4400. Social Statistics (3). This course involves the application of statistical techniques to sociological data as illustrated in the research and writing of social scientists. As a course for majors, it represents an important part of the student's methodological training with respect to the statistical analysis of data typically used by sociologists. The student is expected to carry out a number of exercises involving the statistical analysis of sociological data and to interpret the results. This is a required course for sociology majors.

SYA 4936. Sociology Skills Seminar (1). (S/U grade only.) This seminar course helps students answer the question "What can I do with a degree in sociology?" Students learn to apply their sociological imagination and sociological perspective to help them determine what they want to do after graduation.

The Family

SYG 2430. Sociology of Marriage and the Family (3). This course focuses on marriage and family relationships over the life course. Topics covered include dating, love, sexuality, cohabitation, marriage, divorce, reconstituted families, parenting, and marital and family relationships in later life. The major course objective is to critically analyze some of our most private social relationships from a sociological perspective.

SYO 3100. Families and Social Change (3). This course is a basic sociological approach to conditions, issues, and problems of familial organization within the context of changing institutional structures of modern society. Attention is given to such questions as: How have spouse roles changed, and why? How do changes in the organization of work affect family experience? How are family and kinship patterns affected by an aging population? etc.

Personality and Society (Social Psychology)

SYP 3000. Social Psychology of Groups (3). This course represents the study of social psychology from a sociological perspective. Specifically, it is an analysis of the influence of groups and the individual on each other, including the study of norms, group pressure, leadership, motivation, and social personality.

SYP 3350. Collective Action and Social Movements (3). This course explores the origins and organization of social movements, the dilemmas and challenges facing social movements, the relationship between social movements and political institutions, and the role of social movements in causing social change.

SYP 4062. Sexual and Reproductive Health (3). This course examines a number of sexual and reproductive health issues and may include topics such as demographic trends in fertility; the social construction of sexual and reproductive health; reproductive rights; the medicalization of sexual functioning; and the effects of racism, poverty, and sexism on sexual health and reproduction.

SYP 4650. Sports and Society (3). This course explores the topic of sport from a critical perspective focusing especially on inequalities in gender, race, class, and power. This class jointly examines sports as a social mirror that reflects status inequalities as well as the role of sports in perpetuating social inequalities.

Population and Human Ecology

SYD 3020. Population and Society (3). This course examines the causes and consequences of population change in the United States and the world with an assessment of the impact of demographic change on various social institutions.

SYD 3600. Cities in Society (3). This course takes a global perspective on the transformation of prehistoric, non-urban groups to contemporary urban societies. Students obtain background knowledge about our "global village" and how we arrived in it, along with analytical skills that allow them to evaluate and address fundamentally new cultural, political, and economic challenges posed by our increasingly urbanized and interconnected world.

Social Issues and Change

SYD 2740. Sociology of Law and Hispanics (3). This course examines the minority group status of Hispanics and Hispanic subgroups using a sociology of law lens. The course is a hands-on gathering of research-based studies and social-demographics on past and current political representation, effects of legislative and judicial decisions, and legal training on the American experience of Hispanics. The course also traces the processes of minority creation for four categories of Hispanics: Mexicans, Puerto-Ricans, Cubans, and Central/South Americans, as well as their process of subordination since their entry to USA.

SYD 3734. Culture and Society (3). This course explores the meanings of culture in contemporary U.S. society, with a focus on cultural representation, cultural products, and cultural (re)production. Students are introduced to sociological, feminist, critical race, and queer theoretical perspectives on "taste" (also known as cultural capital), power, and cultural representation, emphasizing how culture shapes our experiences and understandings of socially constructed phenomena such as class, race, sexuality, and gender.

SYD 3800. Sociology of Sex and Gender (3). This course examines how gender, as an identity, interaction, institution, and inequality, influences individuals' lives and organizes society.

SYD 4510. Environmental Sociology (3). This course examines the larger social forces that shape our natural environment; the social foundations of environmental problems; and the social responses to environmental issues, conflicts, and movements.

SYD 4700. Race and Minority Group Relations (3). This course explores historical and contemporary race relations in the United States from a sociological perspective. Specifically, students study the underlying issues that characterize the relations between and among different ethnic and racial groups in the United States.

SYD 4730. African-Americans in Modern Society (3). This course examines the African-American experience in the U.S. with the goal of understanding how historical conditions and events shaped current circumstances. Focus is on African-Americans as situated in all major institutions (economy, polity, family, education, religion, welfare, military, criminal justice) and the consequences of their placement. The course applies sociological theories of race/ethnicity to past and current developments.

SYG 2010. Social Problems (3). This course represents a study of various contemporary social problems in an urbanized society, which may include such topics as education, the family, politics, the economy, race relations, drug use and alcoholism, over-population, and other issues.

SYO 4374. Gender, Work, and Family (3). This course examines the forces that create, reproduce, and erode inequalities centering on gender, work, and family. The course requires a critical perspective analyzing the cultural and structural forces that generate and sustain the gender gap in the professional and domestic domains.

SYO 4402. Medical Sociology (3). This course explains why and how social structure influences the distribution of health and illness and illustrates how the medical care system is organized and responds.

SYP 3454. The Global Justice Movement (3). This course critically examines the history, organization, strategies, ideology, opponents, culture, and future prospects of the global justice movement.

SYP 3730. Aging and the Life Course (3). This course explores how changing life course patterns have influenced retirement, health care, politics, and family structure. It also considers the policy choices that have to be made in the twenty-first century as the baby boom generation reaches retirement age.

SYP 4550. Alcohol and Drug Problems (3). This course presents a review and analysis of sociological approaches to the study of alcohol and drug problems. It addresses theoretical perspectives on recreational and deviant drinking and drug use and introduces important empirical methods in the study of alcohol and drug problems and current debates over alcohol and drug policy.

SYP 4570. Deviance and Social Control (3). This course focuses on major theories and research traditions, including structural and social psychological causes of deviant behavior, processes of labeling deviants, and social conflict over definition and treatment of deviance.

Social Organization

SYO 3200. Sociology of Religion (3). This course focuses on the basic sociological perspective of the social organization and forms of religious life in modern society. In the course, religious groups are studied as organizations that contribute to social stability, social conflict, and social change.

SYO 3460. Sociology of Mass Media (3). This course provides a sociological view of mass communications by critically examining the origin, history, and functions of the American mass media and its effect on social life.

SYO 3530. Social Classes and Inequality (3). This course explores the origins and organization of social movements, the dilemmas and challenges facing social movements, the relationship between social movements and political institutions, and the role of social movements in causing social change.

SYO 4250. Sociology of Education (3). This course presents a sociological approach to the study of education as a social institution, its structure, functions, and role in contemporary life.

SYO 4300. Sociology of Politics (3). This course deals with American political institutions, political organizations, pressure groups, and the public's participation in political processes. Discussion focuses on current political issues from a sociological perspective.

SYO 4461. New Media and Social Change (3). This course surveys some of the research outlining the influence of mass media on individuals, institutions, and culture. The course pays attention to both "old" media (e.g., television and newspapers) and "new" media (e.g., websites, and social media) and broadly explores how technological changes effect social institutions and society.

SYP 3540. Sociology of Law (3). This course examines the interrelationship between the legal order and the social order. Limitations of civil and criminal law for conflict management and for implementation of social policy are considered.

Others

IDH 2117. Social (In) Equalities: Social Construction of Difference and Inequalities (3). This course explores the structures and institutions of social inequality along the intersectional axes of class, race, and gender/sexuality by focusing on how these categories are socially constructed, maintained, and experienced.

IDH 2118. Utopias/Dystopias: A Homage to "Social Dreaming" (3). This course examines utopian thinking and differing perspectives on state-society relations and the question of individual freedom within society through various materials such as political manifestos, movies, novels, or poems.

IDS 2322r. Sexual Health in the Modern World (3). This course analyzes and synthesizes information centering on a number of current sexual and reproductive health issues. Course materials include the interdisciplinary theorizing of feminists, medical social scientists, anthropologists, demographers, and public health scholars. May be repeated to a maximum of nine semester hours.

IDS 2323. Gendered Bodies over the Life Course (3). Prerequisite: Honors student or 3.5 GPA or higher. This course examines how gender – as it is embedded in individual, interactional, and institutional dimensions of society – gets woven into experiences of our bodies over the entire life course.

IDS 2339. The Boundaries Between Us: Exploring Racial Inequality in the U.S. (3). This course explores the issue of contemporary racial inequality in the United States. More specifically, the course has been designed to provide students with information about trends and patterns of racial inequality in the U.S. today, allowing them to explore competing explanations for continuing racial inequality, and challenging them to propose and critically assess ideas about potential mechanisms for change.

IDS 2393. The Hunger Games Trilogy: Collective Action and Social Movements (3). This course is an introduction to the sociological study of collective behavior and social movements. This course is organized to highlight themes in the Hunger Games series by Suzanne Collins, which students analyze during the semester. Students have an opportunity to research a movement of their choosing during the semester.

IDS 3137. Politics of Reproduction (3). This course is an introduction to studying the social and political dimensions of human reproduction. In each class, students address historical context, sociopolitical trends, and contemporary debates regarding specific themes and topics related to reproductive politics. Course material and discussions draw from varied perspectives and interdisciplinary resources, including sociology, demography, anthropology, history, medicine, and public health.

IDS 3342. Boomers and Millennials: Changing Generations (3). In this course, students are guided through original empirical research to appreciate the sources of changes across contrasting generations, and to follow up the impact of generational change for a wide range of social, economic and political dimensions of everyday life. Research projects compare different generations at equivalent points in the life cycle.

IDS 3430. Sociology of Hip Hop Culture (3). This course challenges students to examine themes and messages expressed within the subculture of Hip Hop through the application of major sociological perspectives and theories. The course also examines the reciprocal relationship between Hip Hop culture and the broader American society, through engagement with scholarly literature, examination of empirical evidence and execution of student research projects.

IDS 3433. Modern Death (3). Death and dying are fundamental to discussions about social positions and processes, and they reflect who we are and inform how we function as a society. This course is an introduction to studying the social and ethical dimensions of death in the modern world. In each class, we will address historical context, medical and technological trends, and contemporary debates regarding specific themes and topics related to death.

IDS 3512. Examining the Educational Achievement Gap (3). This course empowers students to critically examine the Achievement Gap in education by exploring how personal, political, cultural, economic and social experiences and structures shape the educational landscape. Students gather and analyze research and empirical evidence in order to explicate the arguments, assertions and assumptions about the achievement gap through a range of assessments.

SYA 4905r. Directed Individual Study (3). Consent of instructor and departmental chair required. May be repeated to a maximum of nine semester hours.

SYA 4930r. Selected Topics in Sociology (3). May be repeated to a maximum of nine semester hours.

SYA 4931r. Honors Work (3). May be repeated to a maximum of nine semester hours.

SYA 4932r. Tutorial in Sociology (1). Prerequisite: Upper-division sociology major or minor status. This course is a reading and analysis of primary literature on selected topics in contemporary sociology. May be repeated to a maximum of three semester hours.

SYA 4935r. Capstone for Outstanding Majors (3). In this course, through course readings, discussion, and projects, students learn more about how to apply social theory and methods to conduct research and design programs to address social inequality. The course focus varies from offering to offering, depending on the instructor's area of expertise. Students are invited to enroll in this course based on GPA. May be repeated to a maximum of six semester hours when content changes.

Graduate Courses

Core

SYA 5018. Classical Social Theory (3).
SYA 5305. Introduction to Research Methods (3).
SYA 5315. Qualitative Research Methods in Sociology (3).
SYA 5406. Multivariate Analysis (3).
SYA 5407. Advanced Quantitative Methods (3).
SYA 5458. Social Statistics and Data Analysis for Public Health (3).
SYA 5515. Sociological Research Practicum (0–3). (S/U grade only.)
SYA 5516. Reporting Sociological Research (1–3). (S/U grade only.)
SYA 6936r. Selected Topics in Research Methods (3).

Demography

DEM 5906r. Directed Individual Study (1–3). (S/U grade only.)
DEM 5930r. Special Topics in Demography (3).
DEM 5972r. Master's Research Paper in Demography (3–6). (S/U grade only.)
SYD 5045. Introduction to Demography (3).
SYD 5046. International Population Dynamics (3).
SYD 5105. Population Theory (3).
SYD 5133. Population Data (3)
SYD 5135. Techniques of Population Analysis (3).
SYD 5215. Health and Survival (3).
SYD 5235. Population Mobility (3).
SYD 5225. Fertility (3).
SYO 5177. Family Demography (3).

Health and Aging

SYD 5136. Life Course Epidemiology (3).
SYO 5416. Stress and Mental Health (3).
SYO 6407. Race, Ethnicity and Health (3)
SYP 5738. Aging Policies and Services (3).

Inequalities and Social Justice

SYD 5705. Sociology of Race and Ethnicity (3).
SYD 5817. Contemporary Theories of Gender (3).
SYO 5306. Political Sociology (3).
SYO 5335. Sociology of Political Economy (3).
SYO 5376. Sociology of Gender and Work (3).
SYO 5535. Inequalities: Race, Class, Gender (3).
SYO 5547. Race and Gender in Organizations (3).
SYO 6255. Sociology of Education (3).
SYO 6538r. Advanced Research Seminar In Stratification and Inequality (3–9).
SYP 5005. Social Interaction (3).
SYP 5065. Sexuality Over the Life Course (3).
SYP 5305. Collective Behavior and Social Movements (3).
SYP 6356. Sociology of the Contemporary Women's Movement (3).

General

SYA 5357. Developing Sociological Research (3). (S/U grade only.)
SYA 5625r. Proseminar in Sociology (0–3). (S/U grade only.)
SYA 5907r. Directed Individual Study (3). (S/U grade only.)
SYA 5909r. Directed Individual Study (1–3). (S/U grade only.)
SYA 5912r. Supervised Research (1–5). (S/U grade only.)
SYA 5946r. Supervised Teaching (1–5). (S/U grade only.)
SYA 5971r. Master's Paper Research (0–6). (S/U grade only.)
SYA 6660. Teaching at the College Level in Sociology (3).
SYA 6933r. Selected Topics in Sociology (3).
SYA 8967r. Preparation for Major Area Preliminary Exam (1–12). (S/U grade only.)
SYA 8976. Master's Paper Completion (0). (S/U grade only.)
SYP 5105. Theories of Social Psychology (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

SPANISH:
see Modern Languages and Linguistics

Undergraduate Department of SPORT MANAGEMENT

College of Education

Web Page: *https://education.fsu.edu/degrees-and-programs/sport-management*

Chair: Jeffrey D. James; **Associate Chair:** Michael Giardina; **Professors:** Giardina, James, Newman; **Associate Professor:** Rodenberg; **Assistant Professors:** Du, Kim, Xue; **Teaching Faculty II:** Flanagan, Nobles, Pappas; **Teaching Faculty I:** O'Daniel

The Department of Sport Management offers a Bachelor of Science (BS) in Sport Management. Students seeking admission to the Sport Management major must hold a 2.75 GPA in all college coursework and a "C" in all math and English courses. A minimum grade of "C–" or better must be earned in each prerequisite course to be eligible for admission into the program. A minimum grade of "C–" or better must be earned in each departmental core course, in each departmental elective course, and in each non-departmental elective course. If at any point a student has a combination of three or more "D" and/or "F" grades in departmental core, departmental elective, or non-departmental elective courses, the student may be dismissed from the Sport Management program and required to change their major.

Students admitted to the program must maintain a cumulative GPA of 2.75 or higher. If the cumulative GPA falls below 2.75, the student has one subsequent semester to raise the cumulative GPA to 2.75 or higher. If the cumulative GPA is below 2.75 after two semesters, the student will be dismissed from the Sport Management program.

Prior to admission to the program, the department utilizes centralized advising procedures and all entering students must be advised by the designated coordinator of undergraduate studies. The Sport Management undergraduate academic advisor works with undergraduate students admitted to the bachelor's degree program in conjunction with the Office of Academic Services and Intern Support in the College of Education.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Sport Management satisfy this requirement by earning a grade of "C–" or higher in CGS 2060, CGS 2100, or EME 2040.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Sport Management

1. FIN XXXX or MAR XXXX or GEB XXXX
2. MAN XXXX or BUL XXXX or CGS XXXX or STA XXXX or ACG XXXX or REE XXXX
3. HFT XXXX or RMI XXXX or ECO XXXX or SDS XXXX or COM XXXX
4. PET X303C or BSC X085/X085L
5. SPM X000

Limited Access Programs

No student, transfer or otherwise, may be admitted to limited access College of Education programs without first completing the general education and program prerequisites. Eligible courses will be determined by the community college or university where the student currently is earning the AA or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual.*

Sport Management Program

The Sport Management program provides academic coursework necessary to prepare students to pursue a graduate degree in Sport Management or entry-level employment in a variety of work environments. The course of study leading to a baccalaureate degree with a major in Sport Management encompasses three areas of work: (1) required block and foundation courses; (2) business practices; and (3) electives. The undergraduate major in Sport Management is designated Limited Access and applicants must meet the following eligibility requirements for formal admission to the upper-division program:

- Certification to upper-division OR conferral of the Associate of Arts degree from a Florida public postsecondary institution;
- Completion of a minimum of sixty semester hours prior to admission for the Fall term;
- Completion of the statewide common prerequisite courses for the program area;
- Hold a minimum cumulative GPA of 2.75 on all attempted college credits;
- Submission of the program-specific application package to the Department of Sport Management on or before March 1 of the Spring term preceding Fall admission to the major.

Combined Bachelors/Master's Pathway

The combined Bachelor of Science (BS)/Master of Science (MS) degree pathway in Sport Management provides an opportunity for academically talented students to complete graduate Sport Management courses (12 credit hours) that will be counted toward fulfillment of the BS degree requirements, and also toward fulfillment of the MS degree requirements. With the competitive nature of the sport industry, graduates increasingly are expected to have a higher level of training, and to compete for more than an entry-level position must already have some practical work experiences. The non-thesis Master's degree includes service learning hours, requires completion of practicum hours, and provides additional training and instruction to position students for positions in the sport industry beyond the entry level. In a highly competitive industry, the combined degree provides an option for students seeking more than entry level jobs. In an industry where having a Master's degree does provide a competitive advantage, a combined pathway is expected to be a viable option for undergraduate Sport Management students.

Students interested in the combined pathway should schedule a meeting with the undergraduate academic advisor to discuss the program. The advisor will work with the student to ensure the application form is properly completed, and all application materials are submitted. The advisor will work with students to plan completion of the 12 credit hours included in the combined degree pathway. An undergraduate student seeking to enroll in and complete the combined degree pathway must:

1. Be a junior in good standing, or an upper-division Honors student.
2. Have a cumulative FSU GPA of at least 3.0 at the time of application.
3. Earn a grade of a B or better in a graduate level course in order to have a course counted toward the Bachelor's and Master's degrees.
4. To continue in the combined degree pathway program, students must maintain an overall minimum FSU GPA of 3.0, and carry a course load of no more than fifteen (15) hours in a semester.

Definition of Prefixes

APK—Applied Kinesiology
IDS—Interdisciplinary Studies
PEL—Physical Education Activities (General): Object Centered, Land
PEM—Physical Education Activities (General): Performance Centered, Land
PEN—Physical Education Activities (General): Water, Snow, Ice
PEO—Physical Education Activities (Professional): Object Centered, Land
PEP—Physical Education Activities (Professional): Performance Centered, Land
PET—Physical Education Theory
SPM—Sports Management

Undergraduate Courses

Elective Courses for Non-majors

Note: The 1000-level courses with the repeat designation of "r" may be repeated for a maximum of four semester hours, but only two hours may count toward the University's 120 hour graduation requirement.

IDS 3496. Exploring the World of Sport (3). This course provides students with a general understanding of the sport management field. Through the course, students learn about the breadth of the sport industry, the different areas which comprise the industry, and the prospective employment opportunities in sport management.

PEL 1002r. Introduction to Outdoor Games (1). (S/U grade only.) This course offers an introduction to outdoor games (field games such as cricket, lacrosse, and frisbee). Students become familiarized with basic rules of the sports covered, as well as, improving individual and team skills.

PEL 1004r. Introduction to Indoor Games (1). (S/U grade only.) This course offers an introduction to indoor games (court games such as dodgeball, kickball, etc.). Students become familiarized with basic rules of the activities covered, as well as, improving individual and team skills.

PEL 1111r. Bowling (1). (S/U grade only.)

PEL 1121r. Golf (1). (S/U grade only.)

PEL 1131r. Introduction to Billiards (1). (S/U grade only.)

PEL 1321r. Volleyball (1). (S/U grade only.)

PEL 1341r. Tennis (1). (S/U grade only.)

PEL 1441r. Racquetball (1). (S/U grade only.)

PEL 1511r. Soccer (1). (S/U grade only.)

PEL 1621r. Basketball (1). (S/U grade only.)

PEL 1646r. Flag Football (1). (S/U grade only.)

PEL 1650. Ultimate Frisbee (1). (S/U grade only.)

PEM 1001. Esports and Exergaming (1). (S/U grade only.) This course utilizes an interactive gaming system to introduce new methods of participating in sporting games to students. The course provides students with the opportunity to participate and gain knowledge of multiple sports and activities interactively within the comfort of an open classroom. This innovative method of introducing interactive sports aims to create a lifetime connection between the students and physical activity, whether through interactive participation or involving oneself with the actual sport or activity

PEM 1101r. Physical Conditioning (1). (S/U grade only.)

PEM 1121. Stretch and Relaxation (1). (S/U grade only.)

PEM 1131r. Basic Weight Training (1). (S/U grade only.)

PEM 1141r. Aerobic Conditioning (1). (S/U grade only.)

PEM 1148. Fitness Walking (1). (S/U grade only.)

PEM 1164. Dancesport (1). (S/U grade only.) Dancesport is a competitive form of Ballroom and Latin American dancing. This course focuses on Latin Dance. Students are introduced to information and techniques of Dancesport.

PEM 1171r. Aerobic Dance (1). (S/U grade only.)

PEM 1404. Self-Defense for Women (1). (S/U grade only.) This course introduces students to techniques, principles, and philosophies of self-defense, grounded in martial arts disciplines. The content focuses on the Basic Rape-Aggression-Defense (RAD) skills.

PEM 1405r. Self-Defense/Martial Arts (1). (S/U grade only.)

PEM 1406. Advanced Self-Defense/Martial Arts (1). Prerequisite: PEM 1405. This course examines advanced self-defense tactics/ techniques and considerations that may be useful for various types of encounters perpetrated against individuals beyond the Basic R.A.D. (Rape-Aggression-Defense) skills taught in PEM 1405. This advanced course is designed to serve as an extension of the basic program and taught in component block supplements to the Basic R.A.D. Systems Training.

PEM 1461r. Introduction to Fencing (1). (S/U grade only.)

PEM 1462. Intermediate Fencing (1). (S/U grade only.) Prerequisite: PEM 1461. This course provides for development of intermediate skills for Olympic Sport fencing for those who have completed an introductory fencing course, or who otherwise have prior fencing experience.

PEM 1952. Circus Activities (1). (S/U grade only.)

PEO 2013. Sports Officiating (2).

PEO 2624. Theory and Practice of Basketball (2).

PEO 3219. Theory and Practice of Baseball (2).

PEO 3644. Theory and Practice of Football (2).

PEP 1001r. Contemporary Activities Techniques (1). (S/U grade only.) May be repeated during the same semester.

PEP 3304. Theory and Practice of Track and Field (2).

Courses for Sport Management Majors

Note: The courses with the designation of "r" may be repeated.

PEO 2013. Sports Officiating (2). Prerequisites: PET 4300 and PET 4302C.

PEO 2340. Theory and Practice of Tennis (2). This course is designed to provide students with the necessary knowledge and skills to coach team tennis. The students learn the principles of coaching/teaching and begin to develop their coaching philosophy.

PEO 2624. Theory and Practice of Basketball (2). This course studies teaching and coaching techniques in basketball including current trends and offensive and defensive systems.

PEO 3219. Theory and Practice of Baseball (2). This course studies all phases of baseball technique, strategy, teaching, and coaching procedures.

PEO 3644. Theory and Practice of Football (2). This course focuses on organization, game theory, and the fundamental techniques of playing, teaching, and coaching.

PEP 3304. Theory and Practice of Track and Field (2). This course studies concepts of the fundamental techniques in track and field, emphasis on varsity coaching and instructional methods.

PET 4051. Human Movement Studies (3). This course explores the developmental, biomechanical, and motor learning principles affecting human movement. Emphasizes movement assessment in field-based settings.

PET 4765. Principles and Problems of Coaching (3). This course covers the study of vital socio-psychological aspects of coaching.

SPM 4003. Careers in Professional Sport (3). This course covers issues related to professional sports, including sport agents, contracts, the draft process, salary negotiations, and insurance.

SPM 4004. Issues in Sport Management (3). This course introduces students to the major topics, trends, problems, and issues involved in athletics and sport management.

SPM 4011. Sport History (3). This course provides a survey of significant time periods beginning with the Ancient Greeks and ending with the current society. The survey reviews sport issues and practices across time, aiming to inform students about the role of sport in our current society.

SPM 4012. Sport in Society (3). This course covers the role of sports in the United States, focusing on sports as social and cultural phenomena. Focus is on the relationships between sports and social variables such as race and gender, social institutions such as education and family, as well as social issues such as drug use and violence.

SPM 4013. Cross-Cultural Sport (3). This course approaches sport through a variety of global perspectives and cultural lenses. Students are exposed to different national contexts, histories, leagues, and governing bodies, as well as the social, cultural, political, and economic imperatives organizing sport and its management, including global mega-events (e.g., Olympics, World Cup) and national structures (e.g., Barclays Premier League).

SPM 4014. Sport and Literature (3). This course uses literary theory to critically analyze and interpret a series of popular sport-related novels. The course focuses on the role that literature in general, and sport-based books in particular, have played in promoting and challenging structures of gender, nationalism, sexuality, race, social class, and ability in the United States and Western society more generally.

SPM 4015. Sport and Film (3). This course allows students to use film and media studies theory to critically engage and interpret a series of popular sport-related films. By the end of the course, students are able to write and think critically about the role that film in general, and sport-based films in particular, play in promoting and challenging dominant formations of gender, sexuality, nationalism, race, social class, and ability in Western society.

SPM 4020. Issues in International Sport (3). This course is a discussion of current issues impacting the international sport industry. The course includes site visits and discussions of issues that industry professionals in international settings face.

SPM 4025. Diversity in Sport (3). This course examines the role and impact that ethnicity, racism, gender, and other diversity topics have had on sport, while providing students with an opportunity to develop an understanding and appreciation for diversity in sport.

SPM 4104. Facility and Event Management (3). In this course, students learn the factors involved in obtaining, running, and managing athletic events. They also learn the guidelines for designing, constructing, maintaining, scheduling, and managing an athletic facility.

SPM 4124. Human Resource Management in Sport (3). This course offers an introduction to the basic elements of human-resource management in sport organizations.

SPM 4154. Introduction to Sport Management (3). This course provides an introduction to the diverse field of sport management. Topics cover career opportunities within the sport industry, as well as knowledge relevant to the management, marketing, legal, and financial operations of sport organizations.

SPM 4204. Ethics in Sport (3). This course is designed to examine major moral/ethical issues within sport. Students are introduced to critical-thinking regarding ethical issues in sport and learn to use moral reasoning to make ethical decisions in sport.

SPM 4304. Event and Special Projects (3). This course deals with topics and issues involved in the promotions and marketing of sporting events. The course is an examination of the evolution of large-scale corporate marketing strategies.

SPM 4505. Sport Finance (3). This course provides an introduction to financial strategies related to sport entities and organizations.

SPM 4604. Sport Governance (3). In this course, topics and issues discussed involve the organizational theory, behavior, and structure of various sport organizations. The evolution of power and political activity engulfing sport organizations is examined as well as concepts of leadership and management related to the sport industry. The course also includes an outside project enhancing the student's understanding of a selected sport organization and its event.

SPM 4630. International Sport Venues (3). This course is a study of the design and management of international sport venues. Topics include design, marketing, facility image, media and public relations, among others. The course includes site visits and discussions of issues and challenges that venue managers face.

SPM 4703. Introduction to Sports Analytics (3). This course introduces students to the analytical techniques and quantitative methods that are being used to inform various decisions in the sport industry.

SPM 4705. Applied Data Analytics in Sport Management (3). Prerequisite: SPM 4703 (C- or better). This course equips students with analytics skills and strategic mentalities to respond to the sport industry's demand for individuals who apply data science to solve business problems and challenges.

SPM 4723. Legal Issues in Physical Education (3). This course introduces students to the legal structures, major laws, regulations, and precedents in law in sport and physical education.

SPM 4905r. Directed Individual Study (1–3). (S/U grade only.) This course enables undergraduate study of a research problem. Students work with faculty supervision to complete an independent project pertaining to a particular topic of interest. May be repeated to a maximum of twelve semester hours as topics vary. May be repeated within the same semester.

SPM 4931r. Special Topics in Sport Management (3). This course offers an analysis of selected topics in the sport-management field. May be repeated to a maximum of twelve semester hours.

SPM 4941r. Practicum in Sport Management (3). This course provides opportunities for practical experience in various areas of sport management. The practicum is intended to provide students with work experience in a sport organization. May be repeated to a maximum of nine (9) credit hours; repeatable within the same term.

Graduate Courses

APK 5121. Sport and Exercise Psychology for Coaches (3).
PET 5235. Motor Learning for Coaches (3).
PET 5735. Advanced Coaching (3).
PET 6931r. Advanced Topics (1–4).
SPM 5021. Global Sport Venues (3).
SPM 5022. Global Issues in Sport Management (3).
SPM 5027. Diversity in Sport (3).
SPM 5055. Sport, Culture, and the Body (3).
SPM 5102. Research Methods in Sport Management (3).
SPM 5106. Facility Management in Sport (3).
SPM 5116. Strategic Management for Sport Organizations (3).
SPM 5117. Sport Leadership (3).
SPM 5158. Athletic Administration (3).
SPM 5206. Sport Sponsorship and Sales (3).
SPM 5308. Marketing Sport (3).
SPM 5350. Athlete Recruitment (3).
SPM 5405. Sport and the Media (3).
SPM 5508. Fiscal Management in Sport (3).
SPM 5605. Sport Governance (3).
SPM 5706. NCAA Compliance and Institutional Control (3).
SPM 5716. Risk Management in Sport and Physical Activity (3).
SPM 5726. Issues in Sport Law (3).
SPM 5906r. Directed Individual Study (1–3). (S/U grade only.)
SPM 5907. Professional Development in Sport (3).
SPM 5912r. Supervised Research (1–4). (S/U grade only.)
SPM 5930. Issues in Sport Management (3).
SPM 5940r. Field Laboratory Internship (1–8). (S/U grade only.)
SPM 5942r. Supervised Teaching (1–4). (S/U grade only.)
SPM 5947r. Practicum in Sport Management (3–12).
SPM 6006. Organizational Theory in Sport (3).
SPM 6007. Leadership & Organizational Behavior in Sport (3).
SPM 6008. Foundations in Sport Administration (3).
SPM 6017. Globalization, Development, and Sport (3).
SPM 6046. Sport and Politics (3).
SPM 6208. Seminar in Sport Ethics (3).
SPM 6309. Seminar in Sport Marketing (3).
SPM 6507. Seminar in Sport Finance (3).
SPM 6517. Fundraising in Sport (3).
SPM 6700. Seminar in Sport Management Research (3).
SPM 6707. Applied Research Practices in Sport Management (3).
SPM 6728. Advanced Law in Sport and Physical Activity (3).
SPM 6735. Applied Statistics in Sport Management I (3).
SPM 6736. Applied Statistics in Sport Management II (3).
SPM 6746. Qualitative Inquiry in Sport and Physical Culture (3).

SPM 6931. Seminar in Strategic Management in Sport (3)

SPM 6932r. Advanced Topics in Sport Management (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Undergraduate Department of STATISTICS

College of Arts and Sciences

Website: *http://stat.fsu.edu/*

Chair: Xufeng Niu; **Associate Chair:** Fred Huffer; **Director, Statistical Consulting Center:** Ramsier; **Professors:** Barbu, Chicken, Huffer, Niu, Patrangenaru, She, Sinha, Slate, Srivastava, W. Wu; **Associate Professors:** Cao, Mai, H. Zhang, J. Zhang; **Assistant Professors:** Barrientos, Bradley, Huang, Lin, C. Wu; **Teaching Professor:** Ramsier; **Senior Lecturer:** Bose; **Teaching Faculty II:** Shows; **Professors Emeriti:** Hollander, Lin, McGee, Meeter, Sethuraman, Zahn

The Department of Statistics offers a program leading to the Bachelor of Science (BS) degree in statistics. Statistics is the science of analyzing random events and their associated data. The goals of the analysis are to describe the properties and characteristics of the data visually and numerically, to provide a model for the underlying events which takes into account the randomness of the phenomena, and to make accurate predictions of future events. In the study of statistics, students use and enrich their mathematical expertise and orient their study of the statistical methodology toward useful and relevant purposes in society. Significant opportunities for well-trained persons in statistics arise in many career environments, such as the social sciences, the natural sciences, business, industry, the health services, and government services. Flexible, individually-planned programs of study for minors or majors, including an honors option, are available. Interested students should contact the director of the undergraduate program for more information.

The Department of Statistics offers a wide selection of undergraduate courses in statistical methods for nonmajors with minimal background in mathematics. One of STA 2023, 2122, 2171, or 3032 is a prerequisite for the remaining courses in the series, which are STA 3024, 4202, 4203, 4222, 4502, 4634, 4664, 4702, and 4853.

The department offers a combined bachelor's/master's pathway designed for academically gifted students who wish to pursue an accelerated program culminating in a BS degree in Statistics and an MS degree in Statistics, Statistical Data Science, or Biostatistics. This pathway allows up to twelve semester hours of coursework to be dually counted toward both the BS and MS degrees.

The Department of Statistics provides facilities for computation in connection with coursework and research. The Department has a local area network of workstations and PCs running Linux and Windows operating systems, as well as networked printers. Linked to the campus-wide network, these workstations may be used to access the University-operated clusters for computationally intensive projects.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in statistics satisfy this requirement by earning a grade of "C–" or higher in STA 3024.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Statistics

1. COP XXXX: one scientific programming course for three credit hours designed for computer science majors
2. MAC X311
3. MAC X312
4. MAC X313

5. BSC XXXX/XXXXL or CHM XXXX/XXXXL or PHY XXXX/XXXXL or GLY XXXX/XXXXL: two laboratory-based science courses for four to eight credit hours designed for science majors
6. STA 2XXX

Note: A "C" grade or better in all coursework is required for admission.

Requirements for a Major in Statistics

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Major

The major requires thirty-three total semester hours. Twenty-one of those hours are required statistics courses, including STA 3024 and either STA 4321 or 4442. The additional fifteen semester hours are elective and may be selected from any other 3000- or 4000-level courses with the STA prefix.

Additional requirements include MAC 2311, MAC 2312, and MAS 3105. A grade of "C–" or better must be earned in each statistics or mathematics course counted toward the major. At least seventeen semester hours of courses counted toward the major must be taken at Florida State University. Statistics courses taken at other universities or colleges must be approved by the department.

Options

Students interested in pursuing a course of study in applied statistics are encouraged to take STA 3032, 3064, 4202, and 4203. This provides a strong background in practical data analysis which will be attractive to future employers, as well as completing most of the requirements for a SAS certificate in Programming and Data Analysis.

Students anticipating graduate study in statistics are strongly encouraged to take the STA 4321 and 4322 sequence and additional mathematics courses such as MGF 3301, MAA 4226, MAA 4227, and MTG 4302.

Double Major Overlap Policy

For students double majoring in statistics and another discipline, the department's overlap policy permits six credit hours of coursework counted toward the other major to be also counted toward the statistics major requirements. This overlap limit excludes prerequisite coursework and collateral mathematics courses (MAC 2311, MAC 2312, and MAS 3105).

Minor

The minor may be in any of the departmental or interdepartmental fields approved by the College of Arts and Sciences. A minor in mathematics may include MAC 2311, 2312, and MAS 3105.

Honors in the Major

The Department of Statistics offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Statistics

Required are twelve semester hours in statistics courses, including one of STA 2122, 2171, 3024, 3032, 4442, or 4321 with the remaining three coming from any STA course numbered at the 3000-level or higher. Courses should be selected in consultation with the director of the undergraduate statistics program. A grade of "C–" or better must be earned in each course counted toward the minor. At least six semester hours in statistics courses counted toward the minor must be taken in the Department of Statistics at Florida State University. Statistics courses taken at other universities or colleges must be approved by the department. Contact the department for a full list of requirements and courses applicable to the minor.

Examples of Minor Options

1. A minor in statistical methodology with minimal mathematical prerequisites: STA 2122 or 2171, plus nine semester hours selected from any of STA 3024, 3064, 4173, 4202, 4203, 4222, 4502, and 4664.
2. A minor with statistical theory as well as methodology: STA 4321 and 4322, plus six hours selected from any of STA 4102, 4202, 4203, 4222, 4502, 4702, and 4853.

Combined Bachelor's/Master's Degree Pathway in Statistics

The combined bachelor's/master's pathway in the Department of Statistics is designed for academically strong students who wish to pursue an accelerated program culminating in a Bachelor of Science (BS) degree in statistics and a Master of Science (MS) degree in Statistics, Statistical Data Science, or Biostatistics. Upon approval, this program allows up to 12 graduate hours to be shared with, or double-counted toward, both a BS and an MS degree.

An undergraduate student wishing to enroll in this pathway must meet the following criteria:

1. Completion of at least twelve semester hours of mathematics or statistics in the undergraduate statistics major at Florida State University with a GPA of at least 3.2 in those courses.
2. Completion of at least sixty semester hours at Florida State University with a GPA of at least 3.0. Transfer students must have completed at least two semesters and twenty-four semester hours at FSU with the same minimum GPA.

Undergraduate students may apply as early as the second semester of their sophomore year. If accepted, they should take the GRE at the end of their junior year and apply to the graduate school during the first semester of their senior year.

For more information, please visit *https://stat.fsu.edu/undergraduate-program/combined-bachelorsmasters-pathway*.

Undergraduate Certificate in SAS Programming and Data Analysis

The FSU Department of Statistics offers a certificate in Statistical Analysis System (SAS) Programming and Data Analysis. The certificate is designed to provide students with in-demand programming and statistical computing skills using one of the leading statistical software packages. Focus is placed on applications that require data management and statistical analyses. A certificate with honors option is available.

The undergraduate certificate requires twelve semester hours consisting of one required core course, STA 3024, and three elective courses with a SAS component selected from the following list: STA 3064, 4173, 4202, 4203, 4664, 4702, 4853, 4930 (depending on the topic—check with an advisor) and 4931. Students seeking the honors designation may take STA 5066 in place of STA 3024 as the required core course or augment STA 3024 for honors credit. The coursework will also meet the requirements for students seeking a minor in statistics and can be embedded into a program for those students seeking a major in statistics.

Applicants must also submit a portfolio binder of their SAS coursework. The binder will include major assignments or projects from the courses taken in the certificate program with all four courses being represented. The completed portfolio will demonstrate several areas of SAS skills that are deemed valuable for public sector, private sector, or graduate school work. Students interested in the certificate must apply before completion of their second course in the program. The certificate application and more program details may be found at *http://stat.fsu.edu/sas-certificate*.

Definition of Prefixes

EGN—Engineering: General
IDS—Interdisciplinary Studies
QMB—Quantitative Methods in Business
STA—Statistics

Undergraduate Courses

SCE 4939r. Seminar in Contemporary Science, Mathematics, and Science Education (1).

Note: For the description of the course above, see "Science Education" in the School of Teacher Education chapter of this *General Bulletin*.

EGN 3443. Statistical Topics in Engineering (3). Prerequisite: MAC 2312. This course explores basic statistical analysis, samples and populations, variability, hypothesis formulation, and data analysis. Use of computer software and interpretation of results.

IDS 2400. Understanding Uncertainty: Games of Skill and Chance (3). This course introduces and employs two mathematical tools useful in quantifying uncertainty: probability and statistics. Questions are considered in the context of games of chance, such as card and casino games, and games of skill, such as sporting events.

QMB 3200. Quantitative Methods for Business Decisions (3). This course examines classical and modern decision-making techniques based on probabilistic concepts. Emphasizes applications to all areas of business.

STA 1013. Statistics Through Example (3). This course provides students with a background in applied statistical reasoning. Fundamental topics are covered including graphical and numerical description of data, understanding randomness, central tendency, correlation versus causation, line of best fit, estimation of proportions, and statistical testing. Statistical thinking, relevant ideas, themes, and concepts are emphasized over mathematical calculation. In this class students learn many of the elementary principles that underlie collecting data, organizing it, summarizing it, and drawing conclusions from it.

STA 1220. In My Opinion: Introduction to Designing, Conducting and Analyzing Surveys (3). This course teaches the methods and concepts behind creating and conducting surveys and the statistical tools needed to analyze data gathered from them. Students participate in data collection from different sources for individual- and class-designed surveys.

STA 2023. Fundamental Business Statistics (3). Miscellaneous requirement: Two years of high school algebra is recommended. Special Note: High school students who earn a "3" or better on the AP Statistics Exam may elect to be given credit for STA 2023. This course covers statistical applications in business, involving graphical and numerical descriptions of data, data collection, correlation and simple linear regression, elementary probability, random variables, binomial and normal distributions, sampling distributions, and confidence intervals and hypothesis tests for a single sample. This course prepares students for further study and job preparation in the field of Business. The course emphasizes understanding of data and interpretation of statistical analyses, and requires students to think of data, and report the results of their analyses, in context.

STA 2122. Introduction to Applied Statistics (3). Prerequisite: MAC 1105. Special note: No credit given for STA 2122 if a grade of "C-" or better is earned in STA 2171, STA 3032, or QMB 3200. This course covers normal distributions, sampling variation, confidence intervals, hypothesis testing, one-way and two-way analysis of variance, correlation, simple and multiple regression, contingency tables and chi-square tests, and non-parametric statistics. No credit given for STA 2122 if a grade of "C–" or better is earned in STA 2171, STA 3032, or QMB 3200.

STA 2171. Statistics for Biology (4). Prerequisite: MAC 2311 and biology major status or departmental approval. This course provides an introduction to statistics emphasizing applications to biology. Topics include: descriptive statistics, elementary probability, the binomial and normal distributions, confidence intervals and hypothesis tests for means and proportions, correlation and regression, contingency tables and goodness-of-fit tests as well as analysis of variance.

STA 3024. SAS for Data and Statistical Analyses (3). Prerequisite: STA 2023 or STA 2122. This course introduces students to the SAS programming language in a lab-based format. The objective is for students to develop programming and statistical computing skills to address data management and analysis issues using SAS. The course also provides a survey of some of the most common data analysis tools in use today and provides decision-making strategies in selecting the appropriate methods for extracting information from data.

STA 3032. Applied Statistics for Engineers and Scientists (3–5). Prerequisite: MAC 2312. This course covers calculus-based probability, discrete and continuous random variables, joint distributions, sampling distributions, and the central limit theorem. Topics include descriptive statistics, interval estimates and hypothesis tests, ANOVA, correlation, simple and multiple regression, analysis of categorical data, and statistical quality control.

STA 3064. Introduction to Statistical Modeling with SAS (3). Prerequisites: STA 2122 and STA 3024. This course covers the following topics utilizing the SAS software: ANOVA, linear modeling, logistic regression, bootstrap sampling, simulation using the data step, and some additional analytic topics.

STA 4102. Computational Methods in Statistics I (3). Prerequisites: At least one statistics above STA 1013, some programming experience, or instructor permission. This course utilizes Matlab and a programming language (C/Fortran) is used. The course focuses on topics such as floating point arithmetic, numerical matrix analysis, multiple regression analysis, non-linear optimization, root finding, numerical integration, Monte Carlo sampling, survey of density estimation.

STA 4103. Computational Methods in Statistics II (3). Prerequisite: STA 4102 or instructor permission. This course utilizes Matlab and a programming language (C/Fortran) is used. The course is a continuation of STA 4102 in computational techniques for linear and non-linear statistics. The course also explores topics such as statistical image understanding, elements of pattern theory, simulated annealing, Metropolis-Hastings algorithm, Gibbs sampling.

STA 4173. Fundamentals of Biostatistics (3). Prerequisite: A previous upper division course in statistics or instructor permission. This course introduces students to the statistical methods used to design and analyze studies of the occurrence of disease in human populations.

STA 4202. Analysis of Variance and Design of Experiments (3). Prerequisite: STA 2122, STA 2171, STA 3032, or QMB 3200. This course focuses on topics such as one and two-way classifications, nesting, blocking, multiple comparisons, incomplete designs, variance components, factorial designs, and confounding.

STA 4203. Applied Regression Methods (3). Prerequisite: STA 2122, STA 2171, STA 3032, STA 4322, or QMB 3200. This course focuses on topics such as general linear hypothesis, multiple correlation and regression, residual analysis, and model identification.

STA 4222. Sample Surveys (3). Prerequisite: A statistics course above STA 1013 or instructor permission. This course focuses on simple, stratified, systematic, and cluster random sampling as well as ratio and regression estimation and multistage sampling.

STA 4321. Introduction to Mathematical Statistics (3). Prerequisite: MAC 2313. This course focuses on topics such as distribution of random variables, conditional probability and independence, multivariate distributions, sampling distributions, Bayes' rule, counting problems, expectations. Credit not given for both STA 4321 and STA 4442.

STA 4322. Mathematical Statistics (3). Prerequisites: STA 4321 and MAC 2313. This course focuses on topics such as sufficiency, point estimation, confidence intervals, hypothesis testing, regression, linear models, and Bayesian analysis. Subsequent credit for STA 5325 is not permitted.

STA 4442. Introductory Probability I (3). Prerequisite: MAC 2312. This course covers various topics including, but not exclusively: random variables, probability distributions, independence, sums of random variables, generating functions, central limit theorem, and the laws of large numbers. Credit is not given for both STA 4321 and STA 4442, and subsequent credit for STA 5440 is not permitted.

STA 4502. Applied Nonparametric Statistics (3). Prerequisite: A statistics course above STA 1013 or instructor permission. This course explores topics such as the application of nonparametric tests, estimates, confidence intervals, and multiple comparison procedures.

STA 4634. Applied Machine Learning (3). Prerequisite: STA 3032 or instructor permission. This course is a hands-on introduction to statistical methods for supervised, unsupervised, and semi-supervised learning. It explores fundamental techniques including but not limited to Support Vector Machines, Decision Trees, Linear Discriminant Analysis, Random Forests, Neural Networks, and different flavors of Boosting.

STA 4664. Statistics for Quality and Productivity (3). Prerequisites: STA 4322 or instructor permission, as well as STA 2122 or STA 2171 or STA 3032 or STA 4442. This course explores topics such as Deming's ideas, graphical methods, control charts, and design of experiments for product and process improvement.

STA 4702. Applied Multivariate Analysis (3). Prerequisite: STA 4203 or STA 4322. This course focuses on many topics including principal components and factor analysis, canonical correlation, discriminant analysis, multivariate analysis of variance, multidimensional contingency tables, cluster analysis. Subsequent credit for STA 5707 is not permitted.

STA 4853. Time Series and Forecasting Methods (3). Prerequisites: QMB 3200 or equivalent, STA 2122, STA 2171, STA 3032, and knowledge of PCs or UNIX. This course focuses on many topics including autoregressive, moving average, and mixed models; autocovariance and autocorrelation functions; model identification; forecasting techniques; seasonal model identification; estimation and forecasting, intervention and transfer function model identification; estimation and forecasting. Subsequent credit for STA 5856 is not permitted.

STA 4905r. Directed Individual Study (2–3). (S/U grade only.) May be repeated to a maximum of twelve semester hours.

STA 4930r. Selected Topics in Statistics, Probability, or Operations Research (2–3). May be repeated to a maximum of twelve semester hours.

STA 4970r. Honors Thesis in Statistics (3). Students selected by the University and the department honors programs may take this course. Consent of the thesis advisor is mandatory. May be repeated to a maximum of six semester hours.

Graduate Courses

STA 5066. Data Management and Analysis with SAS (3).
STA 5067. Advanced Data Management and Analysis with SASS (3).
STA 5106. Computational Methods in Statistics I (3).
STA 5107. Computational Methods in Statistics II (3).
STA 5126. Introduction to Applied Statistics (3).
STA 5166. Statistics in Applications I (3).
STA 5167. Statistics in Applications II (3).
STA 5168. Statistics in Applications III (3).
STA 5172. Fundamentals of Biostatistics (3).
STA 5176. Statistical Modeling with Application to Biology (3).
STA 5179. Applied Survival Analysis (3).
STA 5198. Epidemiology for Statisticians (3).
STA 5206. Analysis of Variance and Design of Experiments (3).
STA 5207. Applied Regression Methods (3).
STA 5208. Linear Statistical Models (3).
STA 5225. Sample Surveys (3).
STA 5238. Applied Logistic Regression (3).
STA 5244. Clinical Trials (3).
STA 5323. Introduction to Mathematical Statistics (3).
STA 5325. Mathematical Statistics (3).
STA 5326. Distribution Theory and Inference (3).
STA 5327. Statistical Inference (3).
STA 5334. Limit Theory of Statistics (3).
STA 5440. Introductory Probability I (3).
STA 5446. Probability and Measure (3).
STA 5447. Probability Theory (3).

STA 5507. Applied Nonparametric Statistics (3).
STA 5635. Applied Machine Learning (3).
STA 5666. Statistics for Quality and Productivity (3).
STA 5707. Applied Multivariate Analysis (3).
STA 5721. High-Dimensional Statistics (3).
STA 5807r. Topics in Stochastic Processes (3).
STA 5856. Time Series and Forecasting Methods (3).
STA 5906r. Directed Individual Study (1–12). (S/U grade only.)
STA 5910r. Supervised Research (0–5). (S/U grade only.)
STA 5920r. Statistics Colloquium (1). (S/U grade only.)
STA 5934r. Selected Topics in Statistics, Probability, or Operations Research (2–3).
STA 5939. Introduction to Statistical Consulting (3).
STA 5940r. Supervised Consulting (1–3). (S/U grade only.)
STA 5941r. Supervised Teaching (1–5). (S/U grade only.)
STA 5945r. Internship in Statistics (0-6).
STA 6174r. Advanced Methods in Epidemiology (3).
STA 6246r. Advanced Topics in Applied Statistics (2–3).
STA 6346. Advanced Probability and Inference I (3).
STA 6448. Advanced Probability and Inference II (3).
STA 6468r. Advanced Topics in Probability and Statistics (2–3).
STA 6557. Object Data Analysis (3).
STA 6709. Spatial Statistics (3).
STA 6906r. Directed Individual Study (1–12). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

TAX ACCOUNTING:
see Accounting

School of TEACHER EDUCATION
Undergraduate Programs

College of Education

Website: *http://education.fsu.edu*
Director: Sherry A. Southerland; **Professors:** Hanline, Jones, Lewis, Patton Terry, Southerland; **Associate Professors:** Andrews-Larson, K. Clark, Dennis, Guerette, Jakubowski, Kim, Myers, Schoen, Whalon, Whitacre; **Assistant Professors:** Cabell, Fleury, Hiver, Ibourk, Ivy, Jaber, Root, Papi, Steacy, Tekkumry-Kisa; **Teaching Faculty III:** A. Davis, Rios (Panama City); **Teaching Faculty II:** Bell, Daniel, Imperial (Panama City); **Teaching Faculty I:** Crowe (Panama City), Hardin, Leushuis, Tenore; **Professors Emeriti:** Clark, N. Davis, Dawson, Denmark, Gallard, Green, G. Jones, Kirby, Lynch-Brown, Mills, Oseroff, Palmer, Piazza, Platt, Rice, Schluck, Scott, Tait, Wheatley, Wolfgang

The School of Teacher Education is committed to high quality personnel preparation programs; service to the state of Florida; and research in elementary education, early childhood education, reading/language arts, special education, visual disabilities, and related areas. The School strives to provide programs of excellence serving undergraduates, graduates, and advanced graduates by teaching, advising, and providing professional role models. Our goal is to prepare educational leaders who will contribute to the betterment of a pluralistic, global society in the context of the state of Florida's needs for an educated, global-minded citizenry.

The mission is accomplished by:

- implementing personnel preparation programs that are comprehensive and that prepare practitioners to implement state-of-the-art, research-based practices
- conducting high-quality research in authentic settings; and
- translating research to practice through service to the profession at the local, state, and national levels.

For a complete listing of all requirements concerning matriculation into and graduation from an Educator Preparation program, please refer to the "College of Education" chapter in this *General Bulletin*.

The following majors are offered by the School of Teacher Education:

- Elementary Education (Combined BS/MS pathway) +
- English Education (Combined BS/MS pathway) +
- Special Education Teaching (combined BS/MS pathway) +
- FSU-Teach – Program in Secondary Science or Mathematics Teaching
- Social Science Education (combined BS/MS pathway) +
- Visual Disabilities (Combined BS/MS pathway) +

+ limited enrollment

Program requirements for state-approved educator preparation programs are subject to revision based on changes in Section 1004.04, Florida Statutes, Public Accountability and State Approval for Teacher Preparation Programs, and State Board of Education Rule 6A-5.066, Approval of Educator Preparation Programs.

Inventory of State-Approved Initial Certification Programs

The following programs have been approved by the Florida Department of Education (DOE) as Initial Certification Teacher Preparation Programs at the Baccalaureate level:

- Elementary Education with ESOL and Reading Endorsements (Grades K-6)
- Exceptional Student Education with ESOL, Reading, and Autism Spectrum Disorders Endorsements (Grades K-12)
- Visually Impaired Education (Visual Disabilities Education, Grades K-12)
- English Education with ESOL Endorsement (Grades 6-12)
- Social Science Education (Grades 6-12)
- FSU-Teach Secondary Science or Mathematics Teaching (Grades 6-12)

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in elementa-

ry educator preparation, elementary/early childhood education, visual disabilities, and exceptional student education satisfy this requirement by earning a grade of "C–" or higher in EME 2040.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

1. EDF X005

Limited Enrollment Programs

Please note that admission to limited enrollment programs requires submission of the specific program application. As limited enrollment programs, these majors reserve the right to impose standards for admission above and beyond the minimum requirements for admission to educator preparation programs. Fulfillment of the minimum standards does not guarantee admission to limited enrollment programs, so students are encouraged to plan for alternative courses of study should they not be offered admission to a particular major.

EARLY CHILDHOOD EDUCATION

Website: *http://education.fsu.edu/degrees-and-programs/curriculum-and-instruction/early-childhood-education-m-s-d*

Early Childhood Education is a graduate program offering degrees at the major leading to master's, specialist, and doctoral level degrees in Curriculum and Institution. For more information, refer to the *Graduate Bulletin*.

Definition of Prefixes

EEC—Education: Early Childhood

Graduate Courses

EEC 5263. Thematic Curriculum and Direct Instruction for Young Children (3).
EEC 5269. Curriculum and Play for Young Children (3).
EEC 5305. Methods and Experiences with Young Children and Families (3).
EEC 5405. Teachers and Parents: Partners in Education (3).
EEC 5605. Techniques of Classroom Management and Child Study (3).
EEC 5615. Issues and Trends in Early Childhood Education (3).
EEC 5665. Historical and Theoretical Bases of Early Childhood Education (3).
EEC 5671. Research in Early Childhood Education (3).
EEC 5906r. Directed Individual Study (1–3). (S/U grade only).
EEC 5911r. Supervised Research (1–5). (S/U grade only).
EEC 5935r. Special Topics in Early Childhood Education (1–3).
EEC 5942r. Supervised Teaching (1–5). (S/U grade only).
EEC 5944. Student Teaching in Early Childhood Education (6–10). (S/U grade only).
EEC 5947. Field Laboratory Internship (1–8). (S/U grade only).
EEC 6672. Theory and Research in Young Children's Play Curriculum (3).
EEC 6932. Doctoral Seminar in Early Childhood Education (2). (S/U grade only).
LIS 5566. Diverse Resources for Children and Young Adults (3).
LIS 5567. International Literature for Children and Young Adults (3).

ELEMENTARY EDUCATION

(Combined BS/MS Pathway)

Website: *http://education.fsu.edu/degrees-and-programs/elementary-education*

This major is designed to prepare individuals for careers as grades K-6 teachers. The program leads to eligibility for Florida K-6 Elementary certification with endorsements in ESOL and Reading; the program is accredited by the Florida Department of Education.

This major is a combined BS/MS pathway that culminates in the Bachelor of Science (BS) and the Master of Science (MS) degrees. Students must maintain a cumulative 2.5 grade point average (GPA) while enrolled in the undergraduate portion of the combined BS/MS pathway and a cumulative 3.0 GPA once admitted to the graduate portion of the combined BS/MS pathway. Contact department faculty for more information.

Admission Requirements

Elementary education is a limited access, limited enrollment program based on availability of faculty and space. New students are admitted each Fall semester; students should work closely with an advisor to plan completion of basic requirements around the appropriate timetable. Students planning to enter elementary education must meet the requirements for admission into an Educator Preparation program described in the "College of Education" chapter of this *General Bulletin*.

Acceptance of Transfer Courses–Elementary Education Undergraduate Program Leading to Certification

Due to the infusion of competencies in courses across the program leading to endorsements in reading and ESOL, the acceptance of transfer courses toward the undergraduate degree in Elementary Education BS Degree is limited. The only two program courses (or their equivalents) that are eligible for transfer, after review and approval of syllabi by program faculty, are EEX 4070, Including Students with Disabilities in the General Education Curriculum; and EDF 4210, Education Psychology: Developing Learners. Applicants who wish to explore transfer of these courses must provide appropriate course syllabi from other institutions to FSU Elementary Education Faculty for review prior to admission into the program.

Please do not assume that upper-level coursework will transfer for credit towards the Elementary Education BS Degree at Florida State University. Contact the program faculty with questions and/or concerns.

Required Major Courses

Each student preparing to teach elementary education must take all program courses as outlined in the FSU Academic Guide, which may be found at *http://www.academic-guide.fsu.edu/*. These courses are restricted to formally admitted elementary education majors only and **must be taken** in sequence. Students **must complete all** courses within a given semester with a grade of "C" or better and maintain a cumulative GPA of 2.5 (undergraduate coursework) and earn a grade of "B" and maintain a GPA of 3.0 (graduate coursework) to be allowed to continue to the next semester.

Honors in the Major

The elementary education program offers honors in the major to encourage talented juniors and seniors to undertake independent research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Requirements

Background Check: The state of Florida requires that all school districts initiate a level II (FDLE and FBI) criminal background check of all adults who work in schools. Because all courses in elementary education have a required school field component, it is not possible to pass any of the courses if the student is blocked from entering the Leon County Schools or any other school district in the state. Any student who is not able to document that he/she has been cleared by the end of the second week of classes in the first term enrolled will be required to drop all courses and withdraw from the program.

Health and Liability Insurance: Students must also show proof of health insurance and are strongly encouraged to obtain liability insurance each semester.

Professional Behaviors and Dispositions: While enrolled in the elementary education program, the student is expected to demonstrate behaviors and dispositions that conform to the "Code of Ethics" (State Board of Education Rule 6B-1.001, FAC) and the "Principles of Professional Conduct in Florida" (State Board of Education Rule 6B-1.006, FAC). The program reserves the right to refuse or discontinue enrollment of any student who violates these expectations or in the judgment of a majority of the faculty does not meet the program standards.

Definition of Prefixes

EDE—Education: Elementary
EDG—Education: General
EME—Education: Technology and Media
LAE—Language Arts and English Education
MAE—Mathematics Education
RED—Reading Education
SCE—Science Education
SSE—Social Studies Education

Undergraduate Courses

EDE 4302. Literacy Assessment and Instruction (3). Prerequisites: RED 4310, MAE 4326, TSL 4080. Corequisite: RED 4510. This course is designed to provide students with competencies in the use and development of assessments and in using assessments to inform instruction. Emphasis is placed on the administration and interpretation of formal instruments and informal assessment procedures. This course addresses the Florida Educator Accomplished Practices and Competency 3 of the Florida Reading Endorsement.

EDE 4316. Differentiating Reading and Content Area Literacy Instruction (3). Prerequisites: LAE 4314, RED 4310 and TSL 4080. Corequisite: RED 4510. This course addresses research-based literacy strategies and content essential for differentiating reading instruction across content areas, using assessments to inform instruction, and implementing tiers of intervention.

EDE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

EDE 4907r. Directed Field Experiences (1–3). (S/U grade only.) Corequisites: Blocks I, II, or III. This course requires participation in a public school classroom with University supervision. May be repeated to a maximum of twelve semester hours to be taken in the following manner: at least one hour in Block I, one hour in Block II, and two hours in Block III.

EDE 4943. Student Teaching in Elementary Education (9-12). (S/U grade only.) Prerequisites: EDE 4316 and MAE 4310. This course provides teacher candidates with a controlled transition to the role of professional educator; provides a laboratory setting in which critical teaching behaviors may be systematically developed and demonstrated; provides the elementary education faculty and the profession with an opportunity to assess the development and the needs of the teacher candidate; and provides a situation in which the remaining needs can be met. May be repeated to a maximum of twelve semester hours.

EDE 4970r. Honors Work (3). This course is open to participants in the elementary education honors program. Up to twelve semester hours of honors work may be taken. Six thesis hours are required. Seminars are optional.

EDG 4410. Classroom Management and Legal Issues (3). Prerequisites: MAE 4326, RED 4310, and TSL 4080. Corequisite: EDE 4907. This course is designed to provide specific knowledge and opportunities to apply skills in preparation for entering the education profession. Topics include classroom management, classroom routines, organizing for instruction, planning for instruction, effective communication, knowledge of legal and ethical responsibilities of teachers, and safe learning environments.

EME 4311. Technology and Learning for Elementary and Middle School (3). Prerequisite: EME 2040 or instructor permission. This course is designed to help pre-professional teachers use technology for the development of higher learning skills. Included in the technology content are animated graphics, scanned pictures, and linked files. Students work with students in schools to apply concepts from the class. Students acquire technology skills that allow them to develop electronic professional portfolios.

LAE 4314. Language Arts for the Elementary School (3). This course introduces fundamental concepts and questions about oral and written language as it relates to classroom instruction and assessment, and provides students with opportunities to practice strategies and techniques for planning, teaching, and assessing literacy. Covers a wide range of literature, as well as the writing process and concepts to develop extensive vocabulary, listening, viewing, and speaking. Children's literature supports effective instructional planning and implementation for literacy development in a print/language rich environment.

MAE 4114. Learning Progressions in Elementary Mathematics (3). Prerequisites: MAE 4326. This course equips future teachers of K-6 mathematics with the Mathematical Knowledge that is necessary to effectively teach challenging topics in the K-6 curriculum. The course focuses on matters of Specialized Content Knowledge and Knowledge of Content and Students.

MAE 4310. The Teaching of Elementary School Mathematics (3). Prerequisites: MAE 4144 and MAE 4326. This course develops specific instructional techniques to maximize success in the child's learning of mathematics.

MAE 4326. How Children Learn Mathematics (3). Prerequisite: Block I. Corequisite: Block II. This course focuses on children's development of mathematical content and on the development of mathematics curriculum from children's viewpoints. Technology as a tool for learning mathematics is included in the course.

RED 4310. Early Literacy Learning (3). Prerequisite: EDF 1005. This course prepares pre-service teachers to teach beginning reading, targeting the needs of a wide range of learners, including those of varying abilities and from diverse cultures. The content addresses research-based strategies, materials, technology, assessment, classroom management, and collaboration with other professionals and parents.

RED 4510. Teaching Reading in the Elementary School (3). Prerequisites: Blocks I and II. Corequisite: Block III. This course consists of methods and materials for teaching developmental reading based on holistic reading/language comprehension strategies and skill development.

RED 4941. Elementary Education Reading Practicum (3). Prerequisites: LAE 4314, RED 4310, RED 4510 and TSL 4080. This capstone reading course provides students the opportunity to assess and tutor children who are struggling readers.

SCE 4310. Teaching Science in the Elementary School (3). Prerequisites: Blocks I and II. Corequisite: Block III. This course is designed to engage the student in self-directed, meaningful science activities for positive, cognitive, and affective growth.

SSE 4042. Teaching Social Studies as a Profession (3). This course is intended to help students assess teaching social studies from an external perspective. Students have the opportunity to explore what becoming a social studies teacher means; to assess the organizational structure of teaching as a career and profession; to examine social attitudes about education and the work of teachers; and to consider what it means to think about teaching as social justice work.

SSE 4113. Elementary School Social Studies (3). Prerequisite: Block I. Corequisite: Block II. This course discusses content, applications, and materials in the social sciences from grades K–6.

Graduate Courses

EDE 5225. The Elementary School, K–6 (3).
EDE 5227. The Integrated Curriculum in the Elementary and Middle School (3).
EDE 5266r. Current Issues and Trends in Elementary Education (3).
EDE 5324. Promoting Thinking in the Elementary School (3).
EDE 5327. Differentiating Instruction (3).
EDE 5346. Technology in Elementary and Middle School (3).
EDE 5511. Organization for Classroom Instruction in the Elementary School (3).
EDE 5906r. Directed Individual Study (1–3). (S/U grade only.)
EDE 5910r. Supervised Research (1–5). (S/U grade only.)
EDE 5931r. Special Topics in Elementary and Middle School Education (3).
EDE 5940r. Supervised Teaching (1–5). (S/U grade only.)
EDE 5941. Internship in Elementary Teaching (9–12). (S/U grade only.)
EDE 5942r. Elementary Teaching Field Practicum (3).
EDE 6805. Perspectives of Teacher Professional Development (3).
EDE 6935r. Doctoral Seminar in Elementary Education (3). (S/U grade only.)
EDE 6937. Advanced Research Seminar in Elementary Education (3). (S/U grade only.)
EME 5050. Teaching and Technology (3).
MAE 5318. The Topics and Teaching of Elementary School Mathematics (3).
SCE 5215. Conceptual Learning in Elementary School Science (3).
SSE 5615. Problems in Teaching Elementary School Social Studies (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

ENGLISH EDUCATION

(Combined BS/MS Pathway)

Website: *http://education.fsu.edu/degrees-and-programs/english-education*

Secondary English Education Undergraduate Program

The three-year Combined Bachelor's/Master's Pathway in English Education results in a Bachelor of Science in English Education and a Master of Science in Curriculum and Instruction. This program requires coursework in English, English education, teaching English as a second language, reading, and professional education. Students in English education must complete a minimum of fifteen semester hours of English coursework. All upper-division English coursework must be taken at the 3000/4000 level. Courses must include those that focus specifically on these areas: minority American literature, American literature, multicultural literature, Shakespeare, British literature, linguistics, and advanced composition. Students should see an advisor in English education for specific courses satisfying these requirements.

For a complete list of English education Combined Bachelor's/Master's Pathway coursework, please go to: *http://www.academic-guide.fsu.edu/*.

All candidates also are required to take TSL 4520, TSL 4251, TSL 5005, and TSL 5142. When taken in conjunction with the courses listed above, students become eligible for the state ESOL endorsement in teaching English as a second language. Requirements for Student Teaching are described in the "College of Education" chapter of this *General Bulletin*.

Progression to Upper-Division Programs

Students may make application to upper-division upon completion of all minimum requirements. Applicants should submit a completed program application to the Office of Academic Services and Intern Support, *2301 Stone Building*. Students affected by this policy are advised to work closely with an advisor to plan completion of Liberal Studies for the 21st Century requirements and program prerequisites.

All applicants must have fulfilled the common program prerequisites, specific program prerequisites, and have satisfied all other criteria for admission to Educator Preparation programs prior to their first semester in the program, including achievement of a passing score on the General Knowledge portion of the Florida Teacher Certification Examination. See the section entitled *Planning Guide to Educator Preparation Programs* under the "College of Education" chapter in this *General Bulletin*.

Definition of Prefixes

LAE—Language Arts and English Education

RED—Reading Education

Undergraduate Courses

Note: English education majors also must complete coursework offered through the Department of English, the Educational Foundations Program, the Educational Psychology Program, and the Multilingual/Multicultural Education Program. Please see the department for details.

LAE 3331. Teaching Literature and Drama in High Schools (3). Prerequisite: Admission to English Education program. This course explores recent adolescent literature, resources and methods for teaching literature in high schools, uses of creative dramatics in teaching literature and language skills.

LAE 3333. Teaching Writing and Language in High Schools (3). Prerequisite: Admission to English Education program. This course focuses on the attitudes, materials, and procedures for teaching written composition, language, and grammar; planning instruction and evaluating student writing.

LAE 4323. Adolescent Literacy and Young Adult Literature (3). Prerequisites: LAE 3331, LAE 3333, TSL 4080, completion of all English Education admission requirements, including prerequisites, GPA, and FTCE General Knowledge exam. Corequisites: RED 4335, TSL 4081. This course seeks to explore ways in which young adult literature meets many of the needs of secondary school students. Students immerse themselves in the literature of young adults in order to enjoy it as a reader, recommend it to students and colleagues, and implement it within the middle school and high school curriculum.

LAE 4332. Applied English Linguistics for Teachers (3). This course is for prospective middle and high school teachers in contemporary approaches to English linguistics taught in Florida public secondary schools: grammar, usage, dialectology, diction (vocabulary development), semantics, and lexicography. Linguistic content is related to contemporary theories of learning.

LAE 4335. Assessment in English/Language Arts (3). This course examines the role of assessment in secondary English/Language Arts classrooms. Students gain an understanding of how to design and implement different types of classroom-based assessments focusing on oral language, reading, and writing. The course discusses data collection, analysis, and reporting.

LAE 4360. Classroom Management and Planning Instruction in Middle/High School English (3). Prerequisites: LAE 3331 and LAE 4323. This course is to be taken during the final semester of coursework, with LAE 4941. A careful consideration of the role of the secondary schoolteacher of English with special attention to effective classroom management and planning for instruction and evaluation of student progress.

LAE 4363. A Survey of British Literature for English Teachers (3). This course provides those seeking an undergraduate English-Education degree with the opportunity to develop an understanding of the scope of British literature. Participants explore historical, political, and social events that influenced the creation of literature from the Anglo-Saxon era to the present, post-modern period.

LAE 4384. A Survey of American Literature for English Teachers (3). This course is designed for secondary English teachers in need of developing content knowledge. The primary focus is on reading a variety of literary works suitable for teaching grades six through twelve.

LAE 4694. Multicultural Literature (3). Prerequisites: Completion of all English Education admission requirements, including prerequisites, GPA, and FTCE General Knowledge exam. This course is an introduction to the ways "multiculturalism" is conceived, practiced, and represented in contemporary U.S. society. Multicultural literature signifies the study of literature and other cultural forms against and through categories of identity such as class, gender, race, and sexuality.

LAE 4863. Enhancing Teaching Through Technology (3). Prerequisite: EME 2040 or equivalent. This course surveys the issues and uses of technology to improve the teaching and achievement of students in the classroom. Course includes the most current instructional technology methods available to teachers.

LAE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

LAE 4930. Special Topics in Teaching English (1–3). This course includes intensive investigations of problems and issues affecting secondary English instruction prior to and during teaching internship.

LAE 4937r. Honors Work (3). May be repeated to a maximum of six semester hours.

LAE 4941. Methods and Observation/Participation in Middle/Secondary English (3). Prerequisites: LAE 3331 and LAE 4323; Corequisite: LAE 4360. This field study course offers a series of observation and participation activities designed to provide the English education undergraduate with pre-student teaching classroom experiences. This course is to be taken during the final semester of coursework, with LAE 4360.

LAE 4942. Student Teaching in Secondary School English (12). (S/U grade only.) Prerequisites: All English, LAE, TSL, and EDF requirements. This course is an internship in secondary English.

RED 4335. Literacy Across the Content Areas (3). Prerequisites: LAE 3331 and LAE 3333. This course introduces pre-service teachers to the role of literacy in the content areas. Students develop the knowledge, skills, and attitudes needed to meet the literacy needs of students.

RED 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

Graduate Courses (Core Courses)

LAE 5064. Reader Response to Literature: Research and Practice (3).
LAE 5297r. Teachers as Writers (3–6).
LAE 5336. Applied Linguistics for Teachers of English (3).
LAE 5347r. Teaching Writing, PK-16 (3–6).
LAE 5348. Teaching Multiliteracies (3).
LAE 5364. A Survey of British Literature for English Teachers (3).
LAE 5368r. Classroom Management and Methods of Planning and Instruction in Secondary English (3–6).
LAE 5385. A Survey of American Literature for English Teachers (3).
LAE 5637r. Problems and Trends in English Education (3–6).
LAE 5645. Pedagogy and Popular Culture (3).
LAE 5696. Participatory Culture in Literacy and Learning (3).
LAE 5736. Written Composition in the Secondary School: Theory and Research (3).
LAE 5748r. Teacher Action Research: Studies in Teaching Writing I (3–6).
LAE 5749r. Teacher Action Research: Studies in Teaching Writing II (3–6).
LAE 5865. Teaching Media Literacy (3).
LAE 5908r. Directed Individual Study (1–3). (S/U grade only.)
LAE 5915r. Supervised Research (1–4). (S/U grade only.)
LAE 5932r. Special Topics in English Education (1–3).
LAE 5940r. Field Laboratory Internship (1–8). (S/U grade only.)
LAE 5941. Practicum in Secondary English (3).
LAE 5945r. Supervised Teaching (1–4). (S/U grade only.)
RED 5337. Literacy Across the Content Areas (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

READING AND ESOL COMPETENCIES COURSES

Definition of Prefixes

EAP—English as a Second Language for Academic Purposes

FLE—Foreign Language Education

LIN—Linguistics

TSL—Teaching English as a Second Language

Undergraduate Courses

EAP 1850r. Academic English Skills for International Students (2). (S/U grade only.) This course assists international students to improve their academic English and communication skills for success at FSU. Students enhance their overall English skills and become familiar with academic and cultural expectations as well as resources available to them at FSU.

EAP 4831r. Advanced Spoken English for International Teaching Assistants (1–2). (S/U grade only.) This course focuses on the development of speaking and language skills necessary for instruction in a university classroom. Emphasizes content-specific varieties of American English; practice in conversational management required for instruction. May be repeated to a maximum of eight semester hours.

EAP 4832r. American Pronunciation for International Teaching Assistants (1–3). (S/U grade only.) This course is a systematic coverage of the sounds of modern American English. Emphasis is on the role of prosodic features in comprehensibility, development of critical listening, activities for developing self-monitoring competencies.

EAP 4905r. Directed Individual Study (1–3). (S/U grade only.) This course typically emphasizes classroom observation, self-monitoring techniques, and specialized training. May be repeated to a maximum of twelve semester hours.

FLE 3033. Introduction to Teaching Foreign/Second Languages (3). This course is designed to meet the needs of those teaching second languages abroad and pre-service teachers in K-12 foreign/second language education by developing an understanding of current theories of second language learning through exploration of relevant research. Opportunities are provided for students to use the theoretical base in the design of classroom lessons.

FLE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

TSL 4080. Language Principles for Teachers (3). This course provides an overview of the law related to the teaching of English learners and second language acquisition theory.

TSL 4081. Teaching English Learners (3). This course focuses on the teaching of English learners and relates the techniques to second language acquisition theory addressed in the first ESOL course, Language Principles for Teachers. The goal for this course is to develop student's practical competence for teaching English as a foreign or second language (L2), and procedures for teaching language skills and domains in a variety of foreign and second language settings.

TSL 4251. Applied Linguistics for Second Language Learning (3). This course is designed for pre-service teachers in the Elementary, Early Childhood, and English Education programs who teach limited English proficient and other linguistic minority students pre-K–12.

TSL 4324. ESOL Instruction in the Content Areas (3). This course focuses on the theory and application of second-language learning and teaching strategies for limited English-proficient students in subject matter classes. The course also satisfies META requirements for all teachers of LEP students except primary language arts instructors. This course is appropriate for renewal of all certification coverage.

TSL 4341. Grammar Instruction for Foreign and Second Language Teachers (3). This course builds a foundation of knowledge for the grammatical concepts of foreign- and second-language pedagogy. Grammar teaching is often at the heart of foreign and second language education.

TSL 4441. Second Language Testing and Evaluation (3). Prerequisites: EDF 1005, EDF 2085, EME 2040, and admission to the Secondary English-Education program. This course is designed to acquaint students with principles of second language assessment and standardized testing, to inform them of general principles of second language test construction and administration, including traditional and nontraditional assessments, and to provide practical experiences in preparing valid items and analyzing tests.

TSL 4520. Crosscultural Communication for Foreign/Second Language Teachers (3). This course provides teacher candidates with information related to crosscultural communication to prepare them to work with linguistically and culturally diverse learners in K-12 settings. Students explore the relationships between language and culture and focus on methods for fostering understanding between different cultural and subcultural groups.

TSL 4662. Foundations of Second Language Acquisition (3). In this course, students explore key theories, debates, and controversies within the field of Second Language Acquisition through reading and critically evaluating relevant research. The course is organized around issues such as the age of acquisition, learning contexts, cross-linguistic influences, cognitive aspects of language learning, and learner factors, e.g., motivation and aptitude.

TSL 4941. Practicum in Multilingual/Multicultural Education (4). Prerequisites: FLE 3033 and acceptable oral-proficiency interview score. This course explores practical techniques for classroom instruction of basic foreign language skills; teaching intermediate and advanced levels; use and construction of foreign language tests; techniques of planning, classroom management, ethics, and school law.

TSL 4942. Associate Teaching in a Foreign Language (10). (S/U grade only.) Prerequisites: FLE 3033, FLE 4941, and passing score on the Florida Teacher Certification Examination.

TSL 4945r. Associate Teaching in English as a Second Language (2–10). (S/U grade only.) May be repeated to a maximum of ten semester hours.

Graduate Courses

EAP 5835r. Academic Spoken English for ITAs (3). (S/U grade only.)

EAP 5838r. English Pronunciation for International Teaching Assistants (3). (S/U grade only.)

EAP 5845r. Academic Writing for International Graduate Students (3). (S/U grade only.)

EAP 5855r. Academic English and Communication Skills for International Graduate Students (3). (S/U grade only.)

EAP 5860. Advanced English Practice for International Educators (3). (S/U grade only.)

FLE 5915r. Supervised Research (1–4). (S/U grade only.)

LIN 5908r. Directed Individual Study (3). (S/U grade only.)

LIN 5910r. Supervised Research (1–5). (S/U grade only.)

LIN 5932r. Topics in Linguistics (3).

TSL 5005. Theory and Methods in Teaching English Language Learners in PK-12 Classrooms (3).

TSL 5142. Curriculum Design and Materials Development in Foreign and Second Language Education (3).

TSL 5250. Applied Linguistics in Foreign/Second Language Teaching (3).

TSL 5325. English to Speakers of Other Languages (ESOL) Instruction in the Content Areas (3).

TSL 5345. Methodologies for Teaching Foreign and Second Languages (3).

TSL 5350. Pedagogical Grammar for Foreign and Second Language Teachers (3).

TSL 5351. Form-Focused Instruction (3).

TSL 5377. Reading in Foreign Language Instruction (3).

TSL 5440. Foreign/Second Language Testing and Evaluation (3).

TSL 5525. Crosscultural Communication for Foreign/Second Language Teachers (3).

TSL 5640. Seminar: Research in Second Language Learning and Teaching (3).

TSL 5660. Introduction to Second Language Acquisition (3).

TSL 5908r. Directed Individualized Study (1–3). (S/U grade only.)

TSL 5915r. Supervised Research (1–4). (S/U grade only.)

TSL 5930r. Seminar: Current Issues in TSL Teaching (1–3).

TSL 5931r. Seminar: Special Topics in Applied Linguistics (2–3).

TSL 5940r. Field Laboratory Internship (1–8). (S/U grade only.)

TSL 5944. Foreign and Second Language Education in Practice (3).

TSL 5947r. Supervised Teaching (1–4). (S/U grade only.)

TSL 6371. Task-Based Language Learning and Teaching (3).

TSL 6641. Research Issues and Designs in Second Language Education (3).

TSL 6661. Individual Differences and the Psychology of the Language Learner (3).

TSL 6665. Instructed Second Language Acquisition (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

FSU-TEACH PROGRAM IN SECONDARY SCIENCE OR MATHEMATICS TEACHING

Website: *http://www.fsu-teach.fsu.edu/*
Co-Directors: Dr. Sherry Southerland (College of Education), Dr. Ellen Granger (College of Arts and Sciences); **Associate Director:** Dr. Robin Smith; **Core Faculty:** Andrews-Larson, Granger, Jaber, Tekkumru-Kisa, Smith, Southerland; **Clinical Faculty:** Chalfant, Dyar, Kelso, Rose

Jointly developed by the College of Arts and Sciences and the College of Education, the FSU-Teach program offers a fully-integrated undergraduate curriculum with concentration areas in middle and secondary science or mathematics education. The FSU-Teach program is directed by Dr. Ellen Granger in the College of Arts and Sciences and Dr. Sherry Southerland of the College of Education; contact Dr. Granger at *granger@bio.fsu.edu* or Dr. Southerland at *ssoutherland@fsu.edu* for further details.

The program is a **double-major only** curriculum requiring students to complete a primary major in one of the sciences (biology, chemical science, computer science (BA), environmental science, geosciences, or physical science) or in mathematics in addition to a second major in Secondary Science or Mathematics Teaching (SSMT). Each of the discipline areas has special tracks (designated by "/FSU-Teach"), enabling students to complete both of the majors in four years (120 hours), or they may complete the normal discipline area

track and the SSMT major with the understanding that they may exceed the excess credit-hour threshold and be subjected to the excess credit surcharge (*https://registrar.fsu.edu/records/excess_hours/*). Students may begin taking courses in the program as soon as they matriculate at FSU. After completion of the first two prerequisite courses, SMT 1043 and SMT 1053, during the semester of enrollment in the first early core course, students will purchase LiveText, an assignment-tracking platform. Students with a 2.5 cumulative GPA who have 1) completed the first two prerequisite courses (SMT 1043 and SMT 1053) and the early core coursework (before SMT 4301), 2) earned 18 hours of the FSU Liberal Studies curriculum, 3) passed the all sections of the General Knowledge portion of the Florida Teacher Certification Exam, and 4) have been certified to upper division, must apply for formal admission to Educator Preparation and the required second major (SSMT). Juniors or seniors will apply once adequate progress in courses in the primary major is achieved. Application deadlines are November 1 and July 1. At formal admission to Educator Preparation, students will have completed or achieved: SMT 1043 and SMT 1053, the common-course prerequisites for the respective content-area major, and a passing score on all four sections of the General Knowledge portion of the Florida Teacher Certification Exam (FTCE).

Note that FSU-Teach majors are exempt from the statewide pre-education common core of EDF X005, EDG X701, and EME X040. Application for the student teaching internship is submitted upon achievement of passing scores on the appropriate Subject Area Exam and Professional Education portions of the FTCE. The program is structured to allow matriculation at multiple entry points for students at different stages of their undergraduate enrollments (freshman through senior). The program encourages all students with qualifying science or mathematics coursework to explore teaching by taking the SMT 1043 and SMT 1053 prerequisite courses and have their *in-state* tuition reimbursed with a course grade of "C–" or better. The following courses are ALSO required for graduation: HIS 3505, ISC 3523C, and MAT 3503 (for mathematics majors).

In summary, graduation from the FSU-Teach program requires successful completion of a semester-long student teaching internship in a Florida public school, completion of both sets of coursework requirements for the double-major curriculum, achievement of passing scores on the appropriate Subject Area exam and Professional Education portions of the FTCE, and retention of a cumulative GPA of 2.5 or better in both majors.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Geosciences/FSU-Teach and Environmental Sciences/FSU-Teach satisfy this requirement by earning no less than a "C–" in ISC 3523C. Undergraduate majors in Biology/FSU-Teach satisfy this requirement by earning no less than a "C–" in BSC 2010L or ISC 3523C. Undergraduate majors in Chemical Sciences/FSU-Teach satisfy this requirement by earning no less than a "C–" in CHM 3120L or ISC 3523C. Undergraduate majors in Mathematics/FSU-Teach satisfy this requirement by earning no less than a "C–" in COP 3014 or ISC 3313. Undergraduate majors in Physical Science/FSU-Teach satisfy this requirement by earning no less than a "C–" in COP 3014, ISC 3313, or PHZ 4151C. Undergraduate majors in Computer Science-Math satisfy this requirement by earning no less than a "C-" in COP 3014 or COP 3363.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into these upper-division degree programs:

Applied Geosciences/FSU-Teach

1. MAC X311
2. MAC X312
3. PHY X048/X048L and PHY X049C/X049L, or PHY X048C and PHY X049C
4. CHM X045/X045L and CHM X046/X046L, or CHM X045C and CHM X046C
5. SMT X043
6. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division.

Biology/FSU-Teach

1. BSC X010/X010L or BSC X010C or BSC X040/X040L
2. BSC X011/X011L or BSC X011C or BSC X041/X041L
3. CHM X045/X045L or CHM X045C, or CHM X040 and CHM X041
4. CHM X046/X046L or CHM X046C
5. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C, or PHY X053/X053L and PHY X054/X054L, or PHY X048/X048L and PHY X049/X049L
6. MAC X311 or MAC X233 or MAC X253 or MAC X281 or MAC X241
7. MAC X312 or MAC X282 or MAC X234 or STA X023 or STA X024 or STA X321
8. SMT X043
9. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division.

Chemical Science/FSU-Teach

1. CHM X045/X045L, or CHM X040 and CHM 041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. CHM X210/X210L and CHM X211/X211L, or CHM X210C and CHM X211C
4. MAC X311 or MAC X281
5. SMT X043
6. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division.

COMPUTER SCIENCE-math/FSU-Teach

1. MAC X311
2. STA X122
3. SMT X043
4. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division.

Environmental Science/FSU-Teach

1. MAC X311
2. BSC X010/X010L
3. CHM X045/X045L
4. PHY X048C
5. BSC X011/X011L
6. CHM X046/X046L
7. GLY X010C
8. SMT X043
9. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division.

Mathematics/FSU-Teach

1. COP XXXX: one scientific programming course for three credit hours designed for computer science majors
2. MAC X311
3. MAC X312
4. MAC X313
5. BSC XXXX/XXXXL or CHM XXXX/XXXXL or PHY XXXX/XXXXL or GLY XXXX/XXXXL: one laboratory based science course for four credit hours designed for science majors
6. MAP X302

7. SMT X043
8. SMT X053

Note: A "C" grade or better in all coursework is required for admission. Transfer students will be able to take SMT X043 and SMT X053 when admitted to upper division.

Physical Science/FSU-Teach

1. CHM X045/X045L, or CHM X040 and CHM X041, or CHM X045C
2. CHM X046/X046L or CHM X046C
3. MAC X311 or MAC X281
4. MAC X312 or MAC X282
5. MAC X313 or MAC X283
6. PHY X048C and PHY X049C, or PHY X048/X048L and PHY X049/X049L
7. MAC X312
8. SMT X043
9. SMT X053

Note: Transfer students will be able to take SMT X043 and SMT X053 while enrolled in upper division. MAC X312 is a corequisite for PHY X049C.

Definition of Prefixes

SMT—Science or Mathematics Teaching

Undergraduate Courses

SMT 1043. Step 1: Inquiry Approaches to Teaching (1). This course allows students to explore teaching as a career with in-state tuition paid. Following an introduction to the theory and practice behind excellent inquiry-based mathematics and science instruction, students teach lessons in pairs to obtain firsthand experience in planning and implementation.

SMT 1053. Step 2: Inquiry-Based Lesson Design in Science/Mathematics (1). Prerequisite: SMT 1043. In this course, students continue developing the lesson-plan skills learned in SMT 1043 as they become familiar with exemplary middle-school science curricula. After observing a lesson being taught in a local school-district classroom, students work alone or in pairs to plan and teach three inquiry-based lessons to sixth, seventh, or eighth graders.

SMT 3100. Knowing and Learning in Science and Mathematics (FSU-Teach) (3). Prerequisites: SMT 1043 and SMT 1053, or instructor permission. This course focuses on knowing and learning in secondary science and mathematics as understood from a multidisciplinary perspective. The primary goal of this course is not simply to offer a general survey of theories of scientific and mathematical knowing and learning, but also to provide students with the opportunity to identify theories of knowing and learning and to employ these theories in their own practice of science and mathematics teaching.

SMT 4301. Classroom Interactions (FSU-Teach) (3). Prerequisites: SMT 1043, SMT 1053, and SMT 3100. This course explores the role of content, pedagogy, curriculum, and technology in promoting learning and impacting equity. Topics cover discourse in the classroom, diversity, equity, and classroom learning opportunities as well as assessment methods for understanding student learning. FSU-Teach students teach a multi-day lesson with a peer, in a secondary-school setting.

SMT 4664. Project Based Instruction (FSU-Teach) (3). Prerequisites: SMT 1043, SMT 1053, and SMT 3100. Corequisite: Successful completion or current enrollment in SMT 4301. This course integrates the major themes in the FSU-Teach program: infusion of technology in representation, analysis, modeling, assessment, and contextualization of the content; field-based experiences; as well as equity in an intellectually challenging culminating experience before students start teaching. Students must complete this course prior to enrolling in the Apprentice Teaching and the seminar course (SMT 4945 and SMT 4930) of the FSU-Teach program.

SMT 4665r. Model Lessons Seminar (1). (S/U grade only.) This course includes weekly class sessions featuring invited instructors delivering model science and mathematics lessons followed by post-instructional discussions revolving around the lesson's learning objectives, subject area, instructional strategies, assessments, and learning outcomes. May be repeated to a maximum of two semester hours.

SMT 4930. Apprentice Teaching Seminar (FSU-Teach) (1–4). (S/U grade only.) Prerequisites: SMT 1043, SMT 1053, SMT 3100, and SMT 4301. Corequisite: SMT 4945. In this seminar, objectives and course activities serve to support the Apprentice Teaching coursework and are repeated here. Teacher candidates meet as a seminar group for weekly ninety-minute sessions during the semester. FSU-Teach students enrolled in the five hour SMT 4945 must take this corequisite, variable credit seminar.

SMT 4945. Apprentice Teaching (FSU-Teach) (5). (S/U grade only.) Prerequisites: SMT 1043, SMT 1053, SMT 3100, and SMT 4301. Corequisite: SMT 4930. This course allows students to participate in teaching science and/or mathematics in secondary schools as their capstone field experience for the FSU-Teach (SSMT) major in the sciences and mathematics. The focus of this capstone experience is the synthesis and translation of the content and pedagogical knowledge learned in the program to the secondary classroom. This course contains signature assessments that must be successfully completed in order to earn an Institutional Recommendation for certification.

Graduate Courses

SMT 5305. Classroom Interactions (3).

MATHEMATICS EDUCATION

Undergraduate students with an interest in teaching mathematics at the middle or secondary levels should pursue the FSU-Teach program track.

Definition of Prefix

MAE—Mathematics Education

Graduate Courses

MAE 5146. School Mathematics Curriculum (3).
MAE 5175. Teaching Community College Mathematics (3).
MAE 5318. The Topics and Teaching of Elementary School Mathematics (3).
MAE 5337. Seminar on the Teaching of Algebra (2).
MAE 5338. Seminar on the Teaching of Geometry (2).
MAE 5641r. Special Topics in Mathematics Education (2–3).
MAE 5658. Using Technology in the Teaching of Mathematics (3).
MAE 5690. Ethnomathematics (3).
MAE 5691. Mathematics Learning and Teaching (3).
MAE 5795. Seminar on Research in Mathematics Education (2).
MAE 5865. Using History in the Teaching of Mathematics (3).
MAE 5908r. Directed Individual Study (1–3). (S/U grade only.)
MAE 5915r. Supervised Research (1–4). (S/U grade only.)
MAE 5942r. Field Laboratory Internship (1–8). (S/U grade only.)
MAE 5946r. Supervised Teaching (1–4). (S/U grade only.)
MAE 6148. Curriculum in Math Education (3).
MAE 6797. Advanced Seminar on Research in Mathematics Education (4).
MAE 6938r. Doctoral Seminar in Mathematics Education (1–3).
MAE 6939. Seminar in Mathematics Teacher Education (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

READING AND LANGUAGE ARTS

Website: *http://education.fsu.edu/degrees-and-programs/curriculum-and-instruction/reading-educationlanguage-arts-m-s-d*

Reading education and language arts is a graduate program offering degrees at the major leading to master's, specialist, and doctoral level degrees in Curriculum and Institution. For more information, refer to the *Graduate Bulletin*. However, the program does offer undergraduate courses that are part of the Educator Preparation curriculum.

Definition of Prefixes

LAE—Language Arts and English Education
LIS—Library and Information Studies
RED—Reading Education

Graduate Courses

LAE 5319. Teaching Oral and Written Expression in the Elementary School (3).
LAE 5415. Investigation in Children's Literature (3).
LAE 5515. Language and Literacy Assessment (3).
LAE 5738. Linguistic Research in Language Education (3).
LAE 6746. Theory and Research in Language Education (3).
LIS 5566. Multicultural Literature and Information Resources for Children and Young Adults (3).
LIS 5567. International Literature for Children and Young Adults (3).
RED 5109. The Development and Assessment of Emergent Reading and Writing (3).
RED 5147. Foundations of Developmental Reading (3).
RED 5337. Literacy Across the Content Areas (3).
RED 5546. Diagnosis of Reading Disabilities (3).
RED 5548. Correction of Reading Disabilities (3).
RED 5646. Trends and Issues in Reading (3).
RED 5695. Policy Issues in Reading (3).
RED 5744. Using Literacy Research to Inform Practice (3).

RED 5865. Leadership Practicum in Reading and Language Arts (3).
RED 5906r. Directed Individual Study (1–3).
RED 5911r. Supervised Research (1–5). (S/U grade only.)
RED 5945r. Supervised Teaching (1–5). (S/U grade only.)
RED 5947. Seminar and Practicum in Reading and Language Arts (3). (S/U grade only.)
RED 6747. Theory and Research in Reading (3).
RED 6938r. Doctoral Seminar in Reading and Language Arts (3).

SCIENCE EDUCATION

Undergraduate students with an interest in teaching science at the middle or secondary levels should pursue the FSU-Teach program track.

Definition of Prefix

SCE—Science Education

Undergraduate Courses

SCE 4363. Advanced Topics in High School Science Teaching and Learning (3). Pre- or corequisites: SCE 4320 and SCE 4362. This course assumes previous field experiences and focuses on issues in curriculum, assessment, and the use of technology in science instruction. The course is offered at the school site, is project-based, and there is an extensive fieldwork component.

SCE 4891. Introduction to the Nature of Science and Scientific Inquiry for Elementary Teachers (3). Corequisite: EDE 4907. This course is designed for elementary education majors. The course is an introduction to the science process skills, inquiry skills, and a 21st century view of the nature of science within the context of science content.

SCE 4892. Problem-Based Science Learning for Elementary Teachers (3). Prerequisite: SCE 4891. This course provides an advanced application of science process and inquiry skills and a 21st century view of the nature of science within the context of biological and Earth/space science content for the elementary school. Students extend and expand their understanding of science content and the inter-relatedness of various science disciplines, process and inquiry skills, and nature of science through engaging in problem-based learning activities.

SCE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

SCE 4920r. Science Education Colloquium (0). (S/U grade only.) This colloquium provides opportunities for sharing and learning about current science education research.

SCE 4939r. Seminar in Contemporary Science, Mathematics and Science Education (1). This course includes presentations of contemporary and interesting issues in science, mathematics, or teaching methods. Content varies from semester to semester. May be repeated to a maximum of four semester hours.

Graduate Courses

SCE 5140. Curriculum in Science Education (3).
SCE 5147. Perspectives on Learning in Science Education (3).
SCE 5332. Methods for Teaching Science in Secondary Schools (3).
SCE 5336. Instructional Strategies (3).
SCE 5340. Teaching and Learning Science (3).
SCE 5545. Teaching Science in Diverse Classrooms (3).
SCE 5642. Science Teaching and Education Policy (3).
SCE 5740. Research Methods in Science Education (3).
SCE 5895. Disciplinary Engagement in Science (3).
SCE 5905r. Directed Individual Study (1–3). (S/U grade only.)
SCE 5910r. Supervised Research (1–4). (S/U grade only.)
SCE 5921r. Colloquium (1). (S/U grade only.)
SCE 5935r. Special Problems in the Teaching of Secondary School Science (1–3).
SCE 5942. Internship for Graduate Students (1–10). (S/U grade only.)
SCE 5943r. Field Laboratory Internship (1–8). (S/U grade only.)
SCE 5946r. Supervised Teaching (1–4). (S/U grade only.)
SCE 5949r. Field Lab Internship (1–3)
SCE 5954. Portfolio Defense (0). (P/F grade only.)
SCE 6345r. Teaching and Learning Science (3).
SCE 6351. Curriculum Design in Science (3).
SCE 6395. Science Teacher Education (3).
SCE 6742. Modeling the Mind (3).
SCE 6761r. Research, Recent Developments, and Current Issues in Science Education (3–5).
SCE 6922r. Colloquium in Science Education (1). (S/U grade only.)
SCE 6938r. Advanced Seminar in Science Education (2).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

SOCIAL SCIENCE EDUCATION

(Combined BS/MS Pathway)

Website: *http://education.fsu.edu/degrees-and-programs/social-science-education*

Admission Requirements

Students accepted into the social science Educator Preparation program must have completed: (1) the liberal studies requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*; (2) the state of Florida common program prerequisites for social sciences described earlier in this section; and, (3) the requirements for admission into an Educator Preparation program described in the "College of Education" chapter of this *General Bulletin*, which includes the following minimum standards: 2.5 overall GPA and passing all sections of the FTCE General Knowledge test. This test is required for certification and is part of the Florida Teacher Certification Examination.

Curriculum for Teachers of Secondary Social Science

Students preparing to teach secondary school social science must complete between thirty-six and thirty-nine semester hours as follows: six semester hours of economics, three semester hours of geography, six semester hours of American government, nine semester hours of American history, six semester hours of world history, three semester hours of public speaking (this can be exempted based on speaking work completed in high school), three semester hours of history at the 3000/4000 level, and a three-semester hour course in a non-European history. The thirty-nine semester hours may include courses in history and social science taken for liberal studies and those taken to meet the state of Florida common program prerequisites for admission to the upper division major. All courses must be passed with a minimum of a "C–" grade.

Professional education requirements and prerequisites for student teaching are available online at *http://undergrad1.its.fsu.edu/academic_guide/guide-display.php?program=social-science-education*. Prior to admission to student teaching, students must achieve an overall GPA of 2.5 or higher and earn a grade of "C" or better in each of the social science education (SSE) courses.

The state of Florida requires that all school districts initiate a level II (FDLE and FBI) criminal background check on all adults who work in schools. Courses in Social Science Education have a required school component. Thus it is not possible to pass these courses if the student is blocked from entering Leon County Schools.

While enrolled in Educator Preparation programs, the student is expected to demonstrate behaviors and dispositions that conform to the "Code of Ethics" (State Board of Education Rule 6B-1.00, FAC) and the "Principles of Professional Conduct in Florida" (State Board of Education Rule 6B-1.006, FAC). The programs reserve the right to refuse or discontinue enrollment of any student who violates these expectations or in the judgment of a majority of the program faculty does not meet the program standards.

Progression to Upper-Division

Students may make application to upper-division upon completion of all minimum requirements. Applicants should submit a completed program application to the Office of Academic Services and Intern Support, *2301 Stone Building*. Students affected by this policy are advised to work closely with an advisor to plan completion of *Liberal Studies for the 21st Century* requirements and program prerequisites.

All applicants must have fulfilled the common program prerequisites, specific program prerequisites, and have satisfied all other criteria for admission to Educator Preparation programs prior to their first semester in the program, including achievement of a passing score on the General Knowledge portion of the Florida Teacher Certification Examination. See the section entitled *Planning Guide to Educator Preparation Programs* under the "College of Education" chapter in this *General Bulletin*.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer com-

petency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in all middle and secondary education programs except FSU-Teach satisfy this requirement by earning no less than a "C–" in EME 2040.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Social Sciences Teacher Education

1. EDF X005
2. EME X040
3. AMH X010
4. AMH X020
5. POS X041
6. ECO XXXX or SOC XXXX or ANT XXXX or PSY XXXX or GEA XXXX

Definition of Prefixes

EDF—Education: Foundations and Policy Studies

SSE—Social Science Education

Undergraduate Courses

EDF 2085. Teaching Diverse Populations (3). This course examines the complexity of the full range of human groupings and cultural perspectives, as well as the complex relationships among them. Students gain self-understanding in becoming culturally conscious participants in the global community through examining the differences between individuals and peoples, comparing cultures within the global community, and investigating diversity within Florida populations in general and school community populations in particular.

SSE 3321. Teaching History in the Middle and Secondary School (3). Prerequisites: AMH 2010 or AMH 2020, EUH 2000, and WOH 1023 or WOH 1030. This course examines methodological approaches to the teaching of United States and world history. Students explore the chronological and thematic organization of history courses, primary sources, and narrative in the teaching of history. A focus is on the development of historical cognition.

SSE 4004. Teaching Citizenship (3). Prerequisite: SSE 4042. This course helps students explore the methods and goals of teaching for citizenship in social studies. Students have the opportunity to explore what teaching for citizenship means in different contexts, to incorporate citizenship education into different social studies subject areas (e.g., history, geography, economics, government, etc.), and to consider how existing curriculum and strategies help the aim of teaching for citizenship.

SSE 4194. Developing a Global Perspective (3). Prerequisite: EDG 4321 and SSE 4362. This course examines theory and practice in global education and the integration of global perspectives into curriculum and pedagogy in social sciences and social studies education. The course evaluates major issues and controversies embedded in the field, and enables students to critique scholarship, analyze controversies, and propose ideas for integrating global perspectives in curriculum and instruction.

SSE 4362. Fundamentals in Teaching Social Studies (3). Pre- or corequisite: EDG 4321. This course explores rationale for social studies instruction and an examination of traditional social science instructional methods.

SSE 4390. Teaching Global Issues Simulating the United Nations (3). This course simulates the United Nations as students examine prevalent historical, political, and socio-economic global issues permeating the United States and other nations. Students critically analyze textual materials, long-range effects of deeply-embedded issues on the human condition worldwide, and use new knowledge and understanding learned to develop lesson plans appropriate to national and state standards. In simulating the U.N. General Assembly, students develop an understanding of cross-cultural communication, negotiations, compromise, and practices, along with learning about the philosophy, history, and purpose of the United Nations.

SSE 4664. Inquiry in Teaching Social Studies (3). Prerequisites: EDG 4321 and SSE 4362. This course provides theory and practice in discovery, problem solving, and inquiry teaching of social science.

SSE 4783. Classroom Assessment for Social Studies Education (3). This course provides an understanding of the subject-specific approaches to classroom assessment in social studies education and prepares pre-service teachers to select, plan, and design a range of assessments for their teaching objectives.

SSE 4904. Directed Independent Study (1–3). (S/U grade only.) This course allows students to study individually, under the direction of a faculty member. Topics vary and are usually selected on an individual basis. Hours may vary.

SSE 4931r. Special Topics (1–3). This course offers topics of current or special interest to students and instructors. Topics may vary from semester to semester. May be repeated within the same term to a maximum of three semester hours.

SSE 4940r. Field Study in Social Education (1–3). (S/U grade only.) Prerequisites: EDG 4321 and SSE 4362. This course is a participant observation field study course in an education setting to be arranged with the instructor. May be repeated to a maximum of three semester hours.

SSE 4944. Student Teaching in Social Science Education (12). (S/U grade only.) Prerequisites: SSE 4362 and SSE 4664. This course is a fifteen-week, off-campus student-teaching experience in Florida schools, supervised by University faculty in social science education.

Graduate Courses

EDF 5887. Multicultural Education (3).
SSE 5195. Developing a Global Perspective (3).
SSE 5367. Fundamentals in Teaching Social Studies (3).
SSE 5386. Goals and Methods for the Teaching of History (3).
SSE 5391. Teaching Global Issues (3).
SSE 5665. Inquiry in Teaching Social Studies (3).
SSE 5720. Shaping Social Studies Teaching and Learning through Technology (3).
SSE 5907r. Directed Individual Study (1–3). (S/U grade only.)
SSE 5915r. Supervised Research (1–4). (S/U grade only.)
SSE 5937r. Special Topics in Social Science Education (3).
SSE 5943. Field Laboratory Internship (1–8). (S/U grade only.)
SSE 5946r. Supervised Teaching (1–4). (S/U grade only.)
SSE 5947. Internship for Graduate Students (1–10). (S/U grade only.)
SSE 6933. History of Social Studies/Social Science Education (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

SPECIAL EDUCATION

(Combined BS/MS Pathway)

Website: *https://education.fsu.edu/degrees-and-programs/special-education*

This major is designed to prepare individuals for careers as public school teachers of students with disabilities. The program leads to eligibility for Florida certification in exceptional student education for grades K through 12 with a Reading, ESOL, and Autism Spectrum Disorders endorsement and is a Florida state-approved initial teacher preparation program.

This major is a three-year combined BS/MS pathway that culminates in the Bachelor of Science (BS) and the Master of Science (MS) degree. Students must maintain a 3.0 grade point average (GPA) during the junior/senior years of study. Contact department faculty for more information.

Admission Requirements

New students are admitted to the Special Education Program in the Fall semester; students should work closely with an advisor to plan completion of basic requirements around the Fall timetable. Program applications are available online at *https://education.fsu.edu/admissions/undergraduate-admissions*. Deadline for Fall consideration is June 1.

Required Major Courses

Course requirements for the Special Education Program are outlined in the FSU Academic Guide, which may be found at *http://undergrad1.its.fsu.edu/academic_guide/guide-display.php?program=special-education*. These courses are restricted to formally admitted Special Education majors and must be taken in sequence. Students must successfully complete all courses within a given semester and maintain a cumulative GPA of 2.5 (undergraduate coursework) and GPA of 3.0 (graduate coursework) to be allowed to continue to the next semester.

Definition of Prefixes

EDF—Education: Foundations and Policy Studies

EEX—Education: Exceptional Child-Core Competencies
EMR—Education: Mental Retardation
IDS—Interdisciplinary Studies
MHS—Mental Health Services

Undergraduate Courses

EDF 2085. Teaching Diverse Populations (3). This course examines the complexity of the full range of human groupings and cultural perspectives, as well as the complex relationships among them. Students gain self-understanding in becoming culturally conscious participants in the global community through examining the differences between individuals and peoples, comparing cultures within the global community, and investigating diversity within Florida populations in general and school community populations in particular.

EEX 3601. Applied Behavior Analysis for Special Educators (3). Corequisite: EEX 3831. This course is an introduction to behavioral principles and procedures useful for managing the behavior of students with handicaps. For majors only.

EEX 3831. Practicum in Direct Observation (2). Corequisite: EEX 3601. This course employs direct observation and recording techniques for analysis of classroom management strategies.

EEX 4012. Foundations of Special Education (3). This introductory course includes classic and contemporary readings in the field of special education. An overview of how society has responded to the various conceptualizations of human exceptionality is presented. Students are introduced to the trends and people that formed the foundation of contemporary special education. Current policies and practices are also examined.

EEX 4070. Including Students with Disabilities in the General Education Curriculum (3). This course provides participants with the knowledge and skills to include students with disabilities in the general education curriculum by adapting instruction and assessment procedures and processes.

EEX 4201. Typical and Atypical Development and Learning (3). This course examines typical and atypical learning and development throughout the lifespan.

EEX 4212. Educational Assessment for Students with Disabilities (3). This course is designed to provide an opportunity for students to develop performance skills in the administration of formal and informal assessment instruments and processes.

EEX 4223. Individualized Educational Planning (3). This course provides students with the opportunity to demonstrate effective use of diagnostic skills. For majors only.

EEX 4250. Individualized Reading Instruction for Students with Disabilities (3). This course reviews methods for teaching reading to individuals with disabilities.

EEX 4251. Teaching Mathematics to Learners with Disabilities (3). In this course, instructional methods and curriculum to teach mathematics to students with disabilities are examined.

EEX 4253. Access to the General Education Curriculum for Individuals with Moderate/Severe Disabilities (3). This course examines methods for teaching functional reading and life skills to individuals with disabilities.

EEX 4291. Characteristics and Education of Learners with Autism Spectrum Disorder (3). This course examines the characteristics and etiology of autism spectrum disorders (ASD), and effective intervention strategies for individuals with ASD. Additionally, the focus is on assessing and addressing the core challenges of learners with ASD (e.g., language, social communication, repetitive behaviors, and behavior regulation) using evidence-based practices in school settings. Students learn to identify and implement assessment and intervention strategies based on learner strengths and needs.

EEX 4486. Differentiated Instruction for Students with Exceptionalities (3). This course is designed to provide future special education teachers with the knowledge and skills needed to meet the diverse learning needs of students found in today's general education classrooms.

EEX 4487. Social Studies and Science Curriculum for Special Educators (3). This course provides an overview of and foundation for teaching science and social studies to learners with disabilities (P-12). Students develop knowledge and skills in using a variety of instructional methods and materials appropriate for providing access to the general education science and social studies curriculum for learners with disabilities.

EEX 4605. Classroom Management for Special Educators (3). This course provides class participants with the knowledge and skills to effectively manage the behavior of learners with disabilities within a classroom setting. Course content is organized around the Pyramid Model that includes three tiers of behavior management based on principles of positive behavior support: 1) Universal supports, 2) Prevention, and 3) Intervention.

EEX 4613. Positive Behavior Support (3). This course provides students with the knowledge and skills necessary to develop, implement, and evaluate the impact of positive behavior supports. Emphasis is placed on understanding the communicative function of challenging behaviors, the teaching of new skills that make the challenging behavior unnecessary, and the prevention of the reoccurrence of challenging behaviors.

EEX 4751. Collaboration with Families, Schools, and the Community (3). This course provides the knowledge and skills necessary for collaborating with families, other professionals, and community members.

EEX 4770. Study of Human Exceptionality (3). This course increases learner knowledge and awareness of the characteristics and needs of people with exceptionalities, and acquaints learners with the resources, issues, and trends related to appropriately meeting these needs.

EEX 4834. Introductory Practicum in Special Education (1). This practicum provides experience with individuals with a range of disabilities. The course also provides participants with experience with different special education service delivery models in a variety of grade levels ranging from K to 12.

EEX 4842. Practicum in Severe Cognitive Disabilities and/or Autism Spectrum Disorder (2). This course provides teacher candidates with fieldwork experience teaching K–12 students with severe cognitive disabilities and/or autism spectrum disorder. The practicum provides experience in developing, implementing, and evaluating functional and academic skills for K–12 students with these disabilities.

EEX 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

EEX 4930r. Special Topics in Special Education (1–3). In this course, topics vary from term to term. May be repeated to a maximum of nine semester hours.

EEX 4941. Practicum in High Incidence Disabilities (1). This practicum provides experience with individuals with high incidence disabilities.

Graduate Courses

EEX 5017. Typical and Atypical Early Development (3).
EEX 5078. Teaching High Risk Adolescents in Alternative Settings (3).
EEX 5087. Middle and Secondary Curriculum for Learners with Disabilities (3).
EEX 5089. Adaptations and Accommodations for Learners with Disabilities (3).
EEX 5095. Teaching Learners with Autism Spectrum Disorder (1).
EEX 5210. Assessment and Diagnosis of Autism Spectrum Disorder and Intellectual Disability (3).
EEX 5225. Assessment of Students with Disabilities (3).
EEX 5234. Development and Assessment of Individuals with Severe Cognitive Disabilities and Autism Spectrum Disorder (3).
EEX 5235. Instructional Environments: Ethical, Legal, Safety, and Classroom Management Considerations (3).
EEX 5237. Methods for Teaching Students with Low Incidence Disabilities (3).
EEX 5239. Assessment and Methods in Early Childhood Special Education (3).
EEX 5246. Mathematics for Students with Disabilities (3).
EEX 5248. Positive Behavior Support (3).
EEX 5258. Advanced Reading Instruction for Students with Disabilities (3).
EEX 5259. Literacy for Learners with Disabilities (3).
EEX 5267. Differentiating Mathematics Instruction in Middle and High School (1).
EEX 5286. Preparing Individuals for Transition (3).
EEX 5298. Teaching Students with Autism (3).
EEX 5456. Program Development for Young Children with Disabilities (3).
EEX 5466. Universal Design for Learning (1).
EEX 5615. Nonviolent Crisis Intervention (1).
EEX 5704. Early Childhood and Elementary Education Curriculum for Special Educators (3).
EEX 5708. Teaming with Families, Schools and the Community (3).
EEX 5765. Introduction to Special Education Technology (3).
EEX 5767. Augmentative and Alternative Communication (AAC) for Learners with Autism Spectrum Disorder (3).
EEX 5774. Collaborative Transition and Career Planning for Students with Severe or Profound Disabilities (3).
EEX 5835. Practicum with Learners with High Incidence Disabilities (3).
EEX 5836r. Practicum with Students with Autism Spectrum Disorder (1–3).
EEX 5841r. Field Laboratory Internship (1–12). (S/U grade only.)
EEX 5863r. Supervised Teaching (1–4). (S/U grade only.)
EEX 5906r. Directed Individual Study (1–3).
EEX 5911r. Supervised Research (1–4). (S/U grade only.)
EEX 5920. Pre-Student Teaching Seminar (1). (S/U grade only.)
EEX 5931r. Special Topics in Special Education (1–3).
EEX 5940r. Practicum in Early Childhood Special Education (3).
EEX 5943r. Practicum in Transition (3).
EEX 6301r. Seminar: Research Problems in Special Education (1). (S/U grade only.)
EEX 6341. Critical Review of Special Education Research (3).

EEX 6342. Seminar: Readings in Education, Training, and Treatment of Exceptional Individuals (3).

EEX 6426. Research and Practices in Special Education Personnel Development (3).

EEX 6935r. Doctoral Seminar in Special Topics (1–3). (S/U grade only.)

EMR 5235. Teaching the Student with Profound Disabilities (3).

EMR 5803. Advanced Practicum in Mental Disabilities (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

VISUAL DISABILITIES EDUCATION

(Combined BS/MS Pathway)

Website: *http://education.fsu.edu/degress-and-programs/visual-disabilities*

The objective of the visual disabilities degree major is to prepare specialists to provide services to individuals who are either blind or have low vision. Following graduation, students are employed in a variety of settings that offer services to children and youth with visual impairments, including as teachers in local and residential schools and at agencies that serve people with visual impairments.

This major is a three-year combined BS/MS pathway that culminates in the Bachelor of Science (BS) and the Master of Science (MS) degree. Students must maintain a 3.0 grade point average (GPA) during the junior/senior years of study. Contact department faculty for more information.

Admission Requirements

1. **New students are admitted to the Visual Disabilities Program in the Fall semester; students should work closely with an advisor to plan completion of basic requirements around the Fall timetable.** Program applications are available online at *https://education.fsu.edu/admissions/undergraduate-admissions*. Deadline for Fall consideration is June 1.
2. Previous experience with individuals with disabilities (for example, volunteer work) is helpful.
3. All admission criteria for teacher certification must be met (listed in the "College of Education" chapter of this *General Bulletin*).

Requirements

Required Major Courses: Course requirements for the Visual Disabilities Education are outlined in the FSU Academic Guide, which may be found at *http://undergrad1.its.fsu.edu/academic_guide/guide-display.php?program=visual-disabilities-education.* These courses are restricted to formally admitted Visual Disabilities Education majors and must be taken in sequence. Students must successfully complete all courses within a given semester and maintain a cumulative GPA of 2.5 (undergraduate coursework) and GPA of 3.0 (graduate coursework) to be allowed to continue to the next semester.

Definition of Prefixes

EMR—Education: Mental Retardation

EVI—Education: Visually Impaired-Blind

IDS—Interdisciplinary Studies

Undergraduate Courses

EVI 1012. The Blindness Experience (3). In this course, students explore blindness, talk with people who are intimately familiar with blindness, and experience adventure under blindfold. Students explore society's reaction to blindness, probing its roots, and take a closer look at how views of blindness are shaped when experienced through the lenses of gender, race, class, religion, and ethnicity. Through blindfold experiences, students have opportunities to learn about braille and the activities of daily life necessary for achieving independence. Through writing, students explore their own reactions and thoughts of blindness, and reflect on the many questions that arise from delving deeper into the blindness experience.

EVI 4011. Introduction to Visual Disabilities (3). This course is designed to provide an overview of the population of people who have visual impairments and the role of specialized service providers. Special attention is given to the effects of visual impairment on development and learning.

EVI 4110. Assessment of Students with Visual Impairments (3). This course introduces basic concepts, principles, and procedures of assessment and applied behavior analysis in the practice of providing services to students with visual impairments, their families, and education personnel.

EVI 4121. Anatomy and Diseases of the Eye for Blindness Professionals (3). This course introduces prospective teachers of students with visual impairments, orientation and mobility specialists, and rehabilitation teachers to the anatomy and physiology of the human eye, the visual mechanism, its embryologic development, and various eye pathologies. Particular emphasis is placed on the impact of these eye pathologies on the visual functioning of the individual.

EVI 4211. Literary Braille (3). In this course students develop skills in the preparation of materials for blind students in the literary Braille code using a braillewriter. Interlining and proofreading are emphasized.

EVI 4212. Nemeth Code and Supporting Math Instruction for Students with Visual Impairments (3). Prerequisites: EVI 4011, EVI 4211, and EVI 4254. This course enables students preparing to be teachers of blind school-age children to support the instruction of mathematics skills. Topics include the foundation of the acquisition of mathematics skills, the Nemeth Code, adaptations of mathematics diagrams and structures, instruction in the abacus, and strategies for teaching mathematics skills to students with visual impairments.

EVI 4220. Introduction to Orientation and Mobility (3). This course provides future teachers of students with visual impairments and rehabilitation teachers with an appreciation for and a realistic understanding of the problems inherent in the orientation and mobility experienced by visually impaired individuals. Stresses techniques for teaching O/M in indoor environments.

EVI 4230. Educational Management of Students with Visual Impairments (3). Prerequisites: EVI 4211, EVI 4212, and EVI 4312. This course provides participants with the knowledge and skills necessary to manage the successful integration of students with visual impairments into the general education environment. Legal, ethical, and safety issues related to the education of students with visual impairments are explored. In addition, students are assisted as they prepare for their student teaching experience.

EVI 4250. Teaching Social and Career Skills to Students with Visual Impairments (3). Prerequisites: EVI 4011 and EVI 4254. This course provides participants with the knowledge and skills necessary to design and implement instructional activities to increase the development of social and career skills in children with visual impairments. Emphasis is placed on infusing these skills into everyday activities, educational instruction, and collaboration with families and communities to improve student outcomes.

EVI 4254. Teaching Independent Living Skills to Students with Visual Impairments (3). This course is designed to provide students planning to be teachers of students with visual impairments with the techniques and instructional tools to safely teach independent living skills, including the skills associated with food preparation, household management, personal grooming, clothing care, and health management.

EVI 4311. Teaching Reading and Writing to Students with Visual Impairments (3). Prerequisites: EVI 4011, EVI 4211, and EVI 4314 or 5316. This course prepares future educators with strategies and techniques necessary for determining the mode of reading and for teaching reading and writing skills to students with visual impairments.

EVI 4312. Academic Modifications in the Public School Class (3). Prerequisites: EVI 4011, and EVI 4212. Corequisite: EVI 4314. This course provides participants with the knowledge and skills necessary to successfully integrate students who are visually impaired in the core education environment. Students learn to adapt classroom materials, collaborate with general education personnel, and develop direct teaching strategies that enhance the optimum functioning of a learner with a visual impairment.

EVI 4314. Low Vision (3). Prerequisite: EVI 4121. This course prepares prospective teachers of students with visual impairments, orientation and mobility specialists, and rehabilitation teachers for facilitating the visual functioning of individuals with low vision. Students learn the basics of optics and how to conduct functional vision evaluations, to modify environments, and to teach the effective use of low vision devices.

EVI 4324. Assistive Technology for Students with Visual Impairments in the Schools (3). Prerequisite: EVI 4211. Corequisites: EVI 4314 or EVI 5316. This course prepares participants in the Visual Disabilities course of studies in the assessment and use of assistive technology for students with visual impairments.

EVI 4330. Methods for Learners with Visual Impairment and Additional Disabilities I (3). Prerequisite: EVI 4121. This course introduces pre-service teachers of students with visual impairment (TVIs) to working with learners who have multiple disabilities in addition to visual impairment, including deafblindness. Course participants learn causes and educational implications of concomitant visual and additional disabilities and principles of applied behavior analysis, which transformed education for this unique group of learners.

EVI 4331. Methods for Learners with Visual Impairment and Additional Disabilities II (3). Prerequisites: EVI 4312 and EVI 4330. This course prepares pre-service teachers of students with visual impairments (TVIs) to complete essential assessments and make instructional and programmatic decisions for learners who have multiple disabilities in addition to visual impairment, including learners who are deafblind. Course participants will learn how to plan and conduct a comprehensive assessment for a preK-12th grade student with severe visual and additional disabilities, and how to report results and make recommendations in writing to support high-risk learners' participation and progress in the general education curriculum and expanded core curriculum.

EVI 4940. Student Teaching in Visual Disabilities (12). (S/U grade only.) Prerequisite: EVI 4230. In this course, student teachers teach students with visual disabilities for one semester within a public school or residential school setting, full-time and under the supervision of an experienced certified teacher of students with visual impairments.

Graduate Courses

EMR 5235. Teaching the Student with Profound Disabilities (3).
EMR 5803. Advanced Practicum in Mental Disabilities (3).
EVI 5018. PK-12 Students with Visual Impairments: Assessment Strategies (3).
EVI 5019. Foundations of Rehabilitation Teaching of the Blind (3).
EVI 5131. Teaching Deaf-Blind/Multisensory Impaired Individuals (3).
EVI 5221. Applied Methods of Orientation and Mobility (3).
EVI 5222. Advanced Orientation and Mobility (3).
EVI 5226. Developmentally Appropriate Orientation and Mobility (3).
EVI 5227. Teaching Orientation and Mobility to Individuals with Unique Health Considerations (3).
EVI 5245. Expanded Core Curriculum for Students with Visual Impairments (3).
EVI 5255. Methods of Independent Living of the Blind (3).
EVI 5310. Teaching Students with High Intensity Needs and Visual Impairment (3).
EVI 5313. Supporting Literacy Skill Acquisition in Visual Impairments (3).
EVI 5315. Teaching Communication Skills to Visually Impaired Adults (3).
EVI 5316. Low Vision (3).
EVI 5317. Unified English Braille (3).
EVI 5318. Special Methods of Working with Preschoolers with Visual Impairments (3).
EVI 5319. Communication and Emergent Literacy for Young Children with Visual Impairments (3).
EVI 5325. Technology for Individuals with Visual Impairment (3).
EVI 5326. Accessible Materials and Environment for Students with Visual Impairments (3).
EVI 5332. Social and Vocational Implications of Recreation and Leisure for Visually Impaired (3).
EVI 5346. Aging and Vision Loss (3).
EVI 5355. Issues of Blindness in Society (3).
EVI 5367. Characteristics and Causes of Visual Impairment (3).
EVI 5371. Foundations of Teaching Students Who Have Visual Impairments (4).
EVI 5931r. Seminar in Visual Disabilities (3).
EVI 5935. Studies in Research on Individuals with Visual Impairment (3).
EVI 5942. Student Teaching in Visual Disabilities (12).
EVI 5943. Practicum in Orientation and Mobility (2).
EVI 5944. Practicum with Students Who Are Deaf-Blind (1–3).
EVI 5945r. Internship in Orientation and Mobility (3–12). (S/U grade only.)
EVI 5946r. Internship in Rehabilitation Teaching of Adults with Visual Disabilities (3). (S/U grade only.)
IDS 5348. Family-Centered Early Intervention (3).

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Other Courses – School of Teacher Education

Definition of Prefixes

EDF—Education: Foundations and Policy Studies
EDG—Education: General
EDM—Education: Middle School
IDS—Interdisciplinary Studies

Undergraduate Courses

EDF 2085. Teaching Diverse Populations (3). In this course students acquire an understanding of the complexity and diversity in the American and Florida populations in general and the school and community populations in particular. Students participate in a field-based experience.

EDG 4321. Foundations of Teaching (3). This course is for students seeking certification who do not have an undergraduate degree in a teaching field. This course provides the essential elements needed to succeed in a classroom setting. It does not have critical tasks needed for initial certification. It is part of the Professional Training Option open to all students.

EDM 3001. Introduction to Middle School (3). This course is designed to give the student an introduction to the modern middle school. It includes the philosophy and practice of the ideal middle school.

IDS 2401. Personally Relevant Mathematics (3). This course will teach students to develop mathematical knowledge through problem posing, problem solving, extending problems, and developing profound understanding of fundamental mathematics concepts. The design of this course is structured to engage participants in inquiry about mathematics such that they will have opportunities to make connections between their current mathematical knowledge and advanced mathematical concepts.

IDS 2402. Mathematics for Civil Engagement (3). This course offers an introduction to ways in which mathematical lenses can be used to explore important current social and environmental issues in relation to their local social and political contexts.

IDS 2510. Questioning What We Know: Teaching and Learning Mathematics and Science in the 21st Century (3). This course offers an introduction to pressing issues in mathematics, science, and mathematics and science education. Students engage in critical thinking regarding effective teaching and learning of mathematics and science today and into the future.

IDS 2321. The Blindness Experience (3). In this course, students explore blindness, talk with people who are intimately familiar with blindness, and experience adventure under blindfold. Students explore society's reaction to blindness, probing its roots, and take a closer look at how views of blindness are shaped when experienced through the lenses of gender, race, class, religion, and ethnicity. Through blindfold experiences, students have opportunities to learn about braille and the activities of daily life necessary for achieving independence. Through writing, students explore their own reactions and thoughts of blindness, and reflect on the many questions that arise from delving deeper into the blindness experience.

IDS 2511. 21st Century Literacies (3). This course discusses how technology is changing the way people learn and what they need to know.

Graduate Courses

EDF 5498. Single Case Design Research for Educators (3).
EDG 5073. Foundations of Blended and Online Learning and Teaching K-12 (3).
EDG 5074. Pedagogy of Blended and Online Learning and Teaching K-12 (3).
EDG 5075. Technologies for Blended and Online Learning and Teaching K-12 (3).
EDG 5076. Issues, Trends, and Practices in Blended and Online Learning and Teaching K-12 (3).
EDG 5206. Teachers and Curriculum Development (3).
EDG 5208. Foundations of Teaching (3).
EDG 5339. Making Sense of Data to Inform Instruction (3).
EDG 5342. Analyzing and Refining Teaching (3).
EDG 5345. Using Assessments in the PK-12 Classroom to Differentiate Instruction (3).
EDG 5365. Practitioner Research in Schools and the Community (3).
EDG 5709. Culturally Responsive Teaching for Equitable Instruction (3).
EDG 5972r. Capstone Defense (0). (S/U grade only.)
EDG 6008. Academic and Professional Identity (1). (S/U grade only.)
EDG 6015. Grant Writing for Educational Research (3).
EDG 6221. Curricular Theory (3).
EDG 6369. Critiquing Educational research (1). (S/U grade only.)
EDG 6950. Writing for Publication (3).

School of THEATRE

Undergraduate Programs

College of Fine Arts

Website: *http://theatre.fsu.edu/*

Chair: Bradley Brock, Interim; **Professors:** Bourus, Chappell, Dahl, Jordan, Muscha; **Associate Professors:** Coleman, Gelabert, Hale, Lickson, Malaev-Babel, Osborne, Ossowski, Salata, West; **Assistant Professors:** Arespacochaga, Lile, Rhine, Thomas; **Faculty Administrator:** Leaming; **Specialized Faculty:** Delorey, Jackson, Riker; **Burt Reynolds Eminent Scholar Chair in Theatre:** TBA; **Hoffman Eminent Scholar Chair in Theatre:** TBA; **Professors Emeriti:** Baker, Fallon

The School of Theatre is a fully accredited member of the National Association of Schools of Theatre, and its degree requirements are in accordance with the latest published regulations of that association. The School of Theatre offers degrees and coursework at both undergraduate and graduate levels. To major in theatre, a student must meet with an academic advisor in theatre. All programs require an audition, interview, or application.

The Bachelor of Arts (BA) is a flexible, broad-based liberal arts degree, providing a basic knowledge of, and experience in, theatre arts. The Bachelor of Fine Arts (BFA) offers an intensive program of training in acting or music theatre. The Master of Arts/Master of Science (MA/MS) degrees offer a blend of academic courses and production training on an advanced level. The Master of Fine Arts (MFA) degree provides training to achieve professional-level competencies in directing, acting, costume design, technical production, or theatre management.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in the BA program in theatre and the BFA programs in acting or music theatre satisfy this requirement by earning a grade of "C–" or higher in THE 4954.

State of Florida Common Program Prerequisites

The state of Florida has identified common program prerequisites for this University degree program. Specific prerequisites are required for admission into the upper-division program and **must** be completed by the student at either a community college or a state university prior to being admitted to this program. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

At the time this document was published, some common program prerequisites were being reviewed by the state of Florida and may have been revised. Please visit *https://dlss.flvc.org/admin-tools/common-prerequisites-manuals* for a current list of state-approved prerequisites.

The following lists the common program prerequisites or their substitutions, necessary for admission into this upper-division degree program:

Dramatic Arts/Theatre

1. THE X000 or any three-credit hour course from THE X001-X035
2. THE X305 or THE X300
3. THE X925
4. TPA X290
5. TPA X200 or TPA X210
6. TPP X190 or TPP X110
7. THE XXXX or TPA XXXX or TPP XXXX
8. THE XXXX or TPA XXXX or TPP XXXX
9. THE XXXX or TPA XXXX or TPP XXXX

Requirements

Admission to Majors

Students should contact the School of Theatre Office of Academic and Student Services regarding admission requirements and procedures for the majors or visit the School of Theatre Web site at *http://theatre.fsu.edu*.

Attendance Requirement for All School Events

All undergraduate students in the School of Theatre must register for THE 4990 every Fall and Spring in which they are enrolled as a theatre major. This course is a zero credit, S/U course. Students **must** attend all school meetings, required plays, and other required events. Failure to comply with this requirement will jeopardize graduation eligibility.

Liberal Studies for the 21st Century Program

All undergraduates in theatre are required to meet the liberal studies requirements as specified in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.

Retention Standards

A grade of "C–" or better is required in all major courses and prerequisites except THE 2020, which requires a "B–" or better. Students may only retake a major requirement once in which a grade below the minimum was received. (THE 2020 may be taken only once.) The class must be retaken the following semester, and a minimum grade of "C–" must be achieved for retention. BA students must maintain a minimum GPA of 3.0 in major requirements and a cumulative GPA of 3.0; BFA acting and music theatre students must maintain a minimum GPA of 3.0 in major requirements and a cumulative GPA of 2.5. If a student receives a "D" or "F" in a major requirement, or if the GPA falls below the minimum, the student will be placed on probation for the following semester. If the grade or GPA does not meet minimum standards by the end of the probationary semester, the student will be dismissed from the School of Theatre.

The School of Theatre retains the right to refuse admission or terminate enrollment at any time if a student fails to maintain the standards of the program.

Honors in Theatre

The School of Theatre offers a program in honors to encourage talented juniors and seniors to undertake independent and original research as part of the undergraduate experience. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Bachelor of Arts Requirements

The Bachelor of Arts (BA) is a flexible liberal arts degree intended to offer a comprehensive knowledge of theatre arts. The program requires a balance of theatre core classes and electives that allow students the opportunity to explore selected areas of the theatre. Theatre core requirements include courses in performance, technical theatre, design, and theatre history. All BA students must complete a run and usher experience. Electives can be fulfilled with additional theatre courses or any other University courses. Liberal studies requirements for the baccalaureate degree must be met. Twenty-four semester hours of coursework must be taken outside of the major, in addition to liberal studies. Hours taken to satisfy the Bachelor of Arts (BA) world language requirement and the diversity requirement (if not part of either the major requirements or liberal studies) may be part of those twenty-four hours. For more information, see the *Bachelor of Arts Degree* section of the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.

Technical Theatre Requirement

BA Theatre majors must complete the technical theatre requirement. Courses must be taken every semester beginning the first semester in residence until the requirement is complete. Students transferring with a major in theatre may receive transfer credit for no more than one technical practices course.

Major

A minimum of thirty-nine semester hours of coursework in theatre is required. Contact the Office of Academic and Student Services in the School of Theatre for a complete list of requirements.

Note: At least eighteen semester hours of these required courses must be completed in residence.

Bachelor of Fine Arts Requirements

The Bachelor of Fine Arts (BFA) is a preprofessional degree, with intensive, in-depth training. The goal is the development of both an understanding of theatre as a total art and the skills necessary for its expression. Students may concentrate in acting or music theatre. The BFA program is designed to provide the necessary foundation for specialization at the graduate or professional level. Admission to the program is highly selective. A student seeking to enter the program must offer, in addition to an acceptable GPA, an acting and/or music theatre audition, and a complete application packet. Continuation in the program is dependent not only upon academic performance but also upon development of talent and skill potential as evaluated by faculty assessment. A student's work and commitment are under continuous review, and any candi-

date who fails to maintain high standards will be dismissed from the program. Although it is possible to complete all requirements within four years, it is possible that a successful course of study will take longer, since graduation depends as much on demonstrated proficiency as on credit hours. Complete details regarding auditions can be found at *http://theatre.fsu.edu*.

Common Curriculum

Beyond the liberal studies requirements, BFA students are required to complete approximately seventy-four to eighty-six semester hours in theatre and related courses. All BFA students are required to successfully complete core theatre courses and technical laboratories. Contact the Office of Academic and Student Services in the School of Theatre for complete degree requirements.

Concentration in Acting

Students with a concentration in acting must complete TPA 2201, 2248, 2291; TPP 2110, 2111, 2190L, 2710, 3510, 3511, 3710, 3711, 4113, 4310, 4531, 4712, 4713, 4922; THE 3213, 3214, 4260, 4303, 4954, and eight elective semester hours in performance. Acting students are required to complete a semester in London between the sophomore and junior year.

Concentration in Music Theatre

Students with a concentration in music theatre must complete MUT 1001, 1111, 1241; MVV 3532, 4542; THE 3214, 4303, 4244, 4245; TPA 2201, 2248, 2291; TPP 2110, 2111, 3510, 3511, 4310, 4257, 4512, and 4923. A minimum of five semester hours of private voice, keyboard, and dance are also required until proficiency is demonstrated in these skills.

London Theatre Experience

In addition to its degree programs, the School of Theatre has created the **London Theatre Experience**, an extraordinary curriculum in London for select theatre majors. The program includes theatre-going, backstage tours, classes with leading theatre artists, special internships, and performance opportunities. Students earn a semester of academic credit while participating in a program that makes a real difference in their lives as students, artists, and human beings. Graduate credit is available only by special request.

Facilities

There are several performance spaces available for the production of plays. All include rehearsal space. They are: the Richard G. Fallon Theatre in the Fine Arts Building; the Studio, or the Augusta Conradi Theatre, in the Williams Building; The Lab Theatre; and the Fine Arts Annex.

The **Richard G. Fallon Theatre** in the Fine Arts Building is a proscenium theatre with continental seating for 500 patrons. Stage equipment includes a turntable, a counterweight system, hydraulic orchestra pit, a computer lightboard, a four-channel sound system, light and sound shops, two large-group dressing rooms, and two private dressing rooms.

The Studio, or the Augusta Conradi Theatre, is a proscenium house and seats 200 patrons. The stage equipment includes a rope system, a preset lightboard, a single channel sound system, a light and sound control booth, green room, two group dressing rooms, and a small scene shop. The auditorium is used as a lecture classroom and demonstration laboratory.

The Lab is a flexible theatre space used in proscenium, thrust, arena, and open configurations. There is a variable seating capacity depending on each production's staging requirements. There is a lighting grid, and portable sound and lighting equipment is utilized. Subscription productions are mounted in the Lab Theatre each year. In addition, the space is used for student development and productions. There is an accompanying rehearsal hall next door.

The **Fine Arts Annex** is a small proscenium space with flexible seating. The space is used as a classroom space, rehearsal space, and as a performance space.

Definition of Prefixes

IDS—Interdisciplinary Studies

THE—Theatre Studies and General Resources

TPA—Theatre Production and Administration

TPP—Theatre Performance and Performance Training

Undergraduate Courses

IDS 2374. Theory and Practice of the Encounter (3). This interdisciplinary course merges performance theory and practice with philosophy and literary theory. It introduces students to the emerging field of performance as research and practice-based research focusing on the phenomenon of the encounter.

IDS 3685. Promoting Art Ethically in Social Media: Separating Truth From Fiction (3). This course explores the ethics of modern social media as a vehicle for marketing and promoting people as artificial characters in a type of electronic performance, and the nature of truth in that promotion.

THE 2000. Introduction to Theatre (3). This course focuses on the historical development and basic elements for appreciation and evaluation of performances. The course is designed for non-majors.

THE 2020. Introduction to Theatre for Majors (3). This course is a survey of the field of theatre, its various divisions, and the School of Theatre. Preparation for independent research and communication about the profession and the school.

THE 3061. Introduction to Theatre in London (3). This introductory course is designed to acquaint students with the components of the theatrical experience as they relate specifically to current dramaturgy and stagecraft in London. It is to be offered only at The Florida State University London Study Center. It should be viewed as a companion class to THE 2000 Introduction to Theatre, for majors and non-majors, but may be taken independently. It makes use of the theatrical resources in the city of London, including attendance at leading theatres, backstage tours, and lectures by prominent theatre artists.

THE 3213. World Theatre History I (3). Prerequisite: THE 2020. This course explores the staging practices and dramatic literature of classical Greece and Rome, medieval Europe and Japan, Renaissance England, Italy, and France, and 18th-century Western Europe.

THE 3214. World Theatre History II (3). This course explores the staging practices and dramatic literature from the 19th century to the present. Specific units include romanticism, melodrama, the rise of realism, avant-garde theatre movements (both American and European), European innovations 1960s–1990s, and contemporary dramatic theory.

THE 3931r. Special Topics in Theatre (3). (S/U grade only.) In this course, topics change per semester depending upon instructor. May be repeated to a maximum of six semester hours.

THE 4064. Disability and Representation (3). Prerequisite: THE 2020, THE 3213, or THE 3214. This course offers an advanced introduction that surveys the way in which the arts and popular culture (including literature, fine arts, performance, advertising, documentary film, and video) have both reflected and contributed to attitudes and public policy concerning people with disabilities. The course takes a disability-studies approach, which considers the social and cultural aspects of disability.

THE 4233. History of African-American Drama (3). This course is a survey of the history of African-Americans in the American theatre from the African Gove Theatre to the present, and of playwrights from William Wells Brown to August Wilson.

THE 4236. A Cultural History of the American Theatre and Drama from Beginnings to Present (3). Prerequisite: THE 2100. This course examines American theatre and drama in its cultural and social context.

THE 4244. Musical Theatre History I (3). Prerequisite: THE 3214, MUL 2211, DAN 4115, or instructor permission. This course is a survey of the popular musical theatre from the beginnings to the 1940s, including the development of comic opera, operetta, the revue tradition, and musical comedy.

THE 4245. Musical Theatre History II (3). Prerequisite: THE 3214, MUL 2211, DAN 4115, or instructor permission. This course is a survey of musical theatre in America since the 1940s, including Rodgers and Hammerstein, Weill, Lerner and Loewe, Loesser, Bernstein, Sondheim, the Black musical, and the rock musical.

THE 4260. Historic Costume for the Stage (3). Prerequisite: THE 3214. This course is a survey of history of Western clothing and relationship to stage.

THE 4273. Seminar in History of Stage Directing (3). Prerequisite: Instructor permission required. In this seminar students investigate the phenomenon of the stage director in its historical context focusing on key figures and productions.

THE 4293. History of Theatre Design & Production (3). This course provides theatre students with an overall understanding of how theatre design and production evolved through the ages. Students are encouraged to actively participate in the objective and critical analysis of the historical conditions that determined and guided our visual and presentational styles over time. Students engage through discussions, creating images that are directly influenced by their discussions, and through their own analytical writing.

THE 4301. Contemporary US Theatre (3). Prerequisites: THE 3213 and THE 4303. This course focuses on contemporary US theatre and performance, including traditional theatre and experimental types of performance. Students read, analyze, and research theatre in the canon and outside of it. The course culminates in an original performance.

THE 4303. Play Analysis (3). Prerequisite: THE 3214. This course is a line by line script examination, analyzing how playwrights of various periods achieved characterization, structure, and plotting.

THE 4433. Gender, Race and Performance (3). This course is an advanced introduction to contemporary theories/practices of performance of race/gender on stage and in everyday life using feminist theories of performance.

THE 4438. African Theatre Performance (3). This course examines the cultural and political complexities of selected countries of sub-Saharan Africa through an exploration of pre-colonial performance traditions, written plays, and contemporary popular culture.

THE 4481. Dramaturgy (3). Prerequisites: THE 3214, THE 4303, and/or instructor permission. This course is an introduction to production dramaturgy with emphasis on conducting research and preparing written reports. Topics include surveys of the critical literature, cultural background and biography, production history and text preparation.

THE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

THE 4913r. Theatre Tutorial (1–3). (S/U grade only.) This course explores selected topics in theatre. Upper division theatre majors only. May be repeated to a maximum of six semester hours.

THE 4917r. Honors Work (1–6). This course is open only to students in the honors program. The course covers specialized honors coursework culminating in an honors thesis. May be repeated to a maximum of nine semester hours.

THE 4923r. Theatre Encounters Workshop (3). Prerequisite: Instructor permission. This course involves a workshop production of a major dramatic work together with extensive study of the social, literary, and cultural contexts. The course includes dramaturgical research and written assignments. May be repeated to a maximum of six semester hours.

THE 4935r. Selected Subjects in Theatre Studies (3). This course is an in-depth examination of various topics not covered in the regular course offerings. The course is for seniors and juniors who have completed at least fifty percent of their major requirements. May be repeated to a maximum of fifteen semester hours.

THE 4954. Culminations (1). Prerequisite: THE 2020. This course is a capstone course in theatre. Emphasis is placed on reflecting upon skills and competencies developed in the course of study and translating those elements to future activities including work and graduate school.

THE 4990r. Theatre Forum (0). (S/U grade only.) This course is required each semester for undergraduate and graduate majors. Attendance may also be required at designated activities scheduled at other times.

TPA 2000. Introduction to Theatrical Design (3). This course introduces the fundamental elements of design including spot, line, shape, and color while relating these elements to theatrical production design.

TPA 2201. Introduction to Technical Theatre (3). This course is an introduction to the technical elements required to produce a theatrical production. The course discusses elements from scene and costume construction, along with lighting, sound, and stage management.

TPA 2248. Stage Makeup (2). This course is an introduction to basic makeup for the stage. Emphasis is on modeling of the face with makeup.

TPA 2291–2292. Technical Theatre Laboratory (one hour each). Prerequisite: Instructor permission. This course consists of practical experience in the non-acting areas of theatre production, including running the box office, disseminating publicity materials, constructing scenery and properties, applying basic techniques for costume construction in practical situations, and serving on lighting, running, or maintenance crews.

TPA 2322. Technical Theatre Practices I – Costumes, Lighting and Backstage Run-Crews (3). This course offers an introduction to theatre costume and lighting practices. Students participate in at least one run-crew assignment.

TPA 2323. Technical Theatre Practices II – Scenery, Scene Painting and Front-of-House (3). This course offers an introduction to theatre scenery and scenery painting practices. Students participate in at least one front-of-house assignment.

TPA 3208. Drafting for the Stage (3). Prerequisite: TPA 2201. This course is an introduction to tools and techniques, including preparation of plates showing construction details and perspective.

TPA 3230. Costuming I (3). Prerequisite: TPA 2322 or instructor permission. This introductory costume sewing class instructs students in the craft of sewing costumes for theatre, focusing on sewing practices used in costume shops throughout the U.S. Students gain hands-on experience and become familiar with a sewing vocabulary through assigned sewing projects. Students also learn to identify commonly used fabrics by both weave and fiber content.

TPA 3298, 3299. Technical Theatre Laboratory (one hour each). Prerequisite: Instructor permission. This course gives students advanced practical experience in the non-acting areas of theatre production, including running the box office, disseminating publicity materials, constructing scenery and properties, applying basic techniques for costume construction in practical situations, and serving on lighting, running, or maintenance crews.

TPA 3325r. Intermediate Technical Theatre Practice (3). Prerequisite: TPA 2323. This course refines the skills and techniques necessary for proficiency at the intermediate level of technical production, including the construction of scenery for the stage, rigging, standard technical theatre vocabulary, and safe work habits. Specific assignments depend upon the School of Theatre production season. May be repeated to a maximum of nine semester hours.

TPA 3333. Introduction to Costume Craft, Dye and Millinery (3).

TPA 3353. Lighting and Sound Technology for the Theatre (3). Prerequisite: TPA 2201. This course provides an in-depth exploration of technology behind the realization of lighting and sound design, including understanding of the intermediate technologies associated with successful design.

TPA 4014. Model Making (3). This course acquaints students with current model building techniques and systems. Students gain experience in constructing most of the elements commonly associated with models such as doors, windows, textures, fences, trees, and props.

TPA 4020. Lighting Design I (3). Prerequisite: TPA 2201. This course acquaints students with the design process and the various tools by which a lighting designer researches and expresses his/her art. The course includes script analysis, producing light plots, and basic drafting.

TPA 4021. Lighting Design II (3). Prerequisites: TPA 3208 and TPA 4020. This course is an overview of the lighting design process for a variety of spaces from concept to finished product. Emphasis is on script analysis. Content includes instruction in the creation and use of paperwork as well as practical aspects of lighting in both the proscenium and non-proscenium venues.

TPA 4024. Lighting Design III (3). Prerequisite: TPA 4021. This course encompasses lighting design for a variety of production styles such as musicals, opera, dance, comedy, and tragedy.

TPA 4045. Costume Design for the Stage (3). Prerequisite: THE 4260 or instructor permission. This course is an exploration of the elements and principles of design as they relate to stage costuming. Coursework includes design projects.

TPA 4060. Principles of Scenic Design (3). Prerequisite: TPA 3208. This course explores beginning design techniques including ground plan, perspective, and model building.

TPA 4073. Rendering for the Stage (3). This course focuses on rendering techniques for the set, costume, and lighting designer in various media. For the course professional equipment is required.

TPA 4077. Scene Painting (3). This course focuses on traditional scene painting techniques for theatre and film. For the course professional equipment is required.

TPA 4078. Advanced Scene Painting (3). This advanced studio course that develops skills introduced in TPA 4077 with non-traditional scenic techniques and non-traditional materials.

TPA 4084. Life Drawing for Designers (3). This course explores the problems of figure drawing as they relate specifically to the theatrical designer using live, nude and draped models.

TPA 4238. Advanced Costume Construction (3). Prerequisite: TPA 3230 or instructor permission. This course is an advanced practice in constructing specialized costumes for stage use. Students gain practical, hands-on experience in theatrical sewing techniques in creating projects such as period corsets, historically based costumes constructed to reflect period details, and beginning tailoring techniques.

TPA 4239. Costume Patterning (3). Prerequisite: TPA 4238 or instructor permission. This course is an introduction to costume patternmaking including drafting, flat pattern, and draping methods. This is a project-oriented course where students gain practice in all three patterning methods on projects for men's and women's historically based costumes.

TPA 4240. Advanced Costume Draping and Fitting (3). Prerequisites: TPA 4239 and THE 4260 or instructor permission. This course is an advanced study in costume patterning for theatre, with an emphasis on draping and/or drafting historically based garments for women and men. Projects include period garment research and measuring, sizing, and fitting techniques to accommodate actual performers' measurements as well as stage movement requirements.

TPA 4246. Stage Wigs and Specialty Makeup (3). This course examines makeup, hair, and wig styles popular throughout history. Students acquire practical, hands-on experience in constructing and styling wigs for the stage and in designing various period hair and makeup styles.

TPA 4250. AutoCAD for the Stage (3). In this course, students learn to apply theatrical drafting standards to AutoCAD. The course also covers basic DOS commands and structure, drafting in 2D AutoCAD, and drafting in 3D AutoCAD (including basic modeling commands).

TPA 4283. Technical Production (3). Prerequisites: TPA 2201 and instructor permission. This course examines the production process from play selection through set design, set load in, run of show, load out, and post mortem analysis. The course focuses on the various and linear aspects of the production, including the management and planning of the budgeting, pre-construction, construction, and strike aspects of the production.

TPA 4302. Structural Design for the Stage I (3). Prerequisites: TPA 2201 and instructor permission. This course explores the physics and mathematics associated with successful stage structure design. Students study and apply concepts of static engineering, physical science, and material strength in the development of scenic elements.

TPA 4354. Lighting Software for Theatre (3). Prerequisites: TPA 3208 and TPA 4020. This course is an overview of primary light design and visualization software programs. No prior knowledge of computer-aided design is necessary. Significant individual work is required.

TPA 4400. Theatre Management (3). This course is designed to provide an introduction to the economic and managerial aspects of American theatre especially as they apply to nonprofit and professional theatre.

TPA 4601. Stage Management (2). This course focuses on methods and techniques of managing simple dramatic shows to complex multi-scene productions. Must be taken before stage managing a Mainstage production. Consent of instructor required.

TPA 4602. Advanced Stage Management (3). Prerequisite: TPA 4601. This course is intended for students who wish to pursue a career in stage management. Advanced study of stage management and development of skills needed to practice in a LORT theatre.

TPA 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

TPA 4940r. Internship in Stage Design, Technical Theatre, and Management (1–12). (S/U grade only.) Prerequisites: Completion of all coursework in theatre and instructor permission. This course is a resident internship in an approved professional theatre, shop, or enrichment center. May be repeated to a maximum of twelve (12) credit hours; repeatable within the same term.

TPP 2100. Performance I (2). This course presents an overview of acting as an art and craft.

TPP 2110r. Acting Technique I: Basic Process (3). Prerequisite: Instructor permission. This course is an introduction of the basic acting process. Emphasis on living truthfully in imaginary circumstances through honest listening and response. May be repeated to a maximum of nine semester hours.

TPP 2111r. Acting Technique II: Contemporary American Realism (3). Prerequisites: TPP 2110r and/or instructor permission. This course focuses on scene study and basic characterization. May be repeated to a maximum of nine semester hours.

TPP 2185. Orientation to Acting (3). This course is a general survey of the development of acting and actor training, Stanislavsky to Hagen, with exercises in the basics of the actor's process and audition technique.

TPP 2190L. Theatre Rehearsal and Performance (1–2). (S/U grade only.) Prerequisite: Instructor permission. This course consists of the assignment of a specific role and/or responsibility. Opportunity for students to receive additional supervision and critique, as well as credit, for participation in rehearsal and performance.

TPP 2191L, 2192L. Theatre Rehearsal and Performance [two hours each]. (S/U grade only.) Prerequisite: Instructor permission. This course consists of the assignment of a specific role and/or responsibility. Opportunity for students to receive additional supervision and critique, as well as credit, for participation in rehearsal and performance.

TPP 2710r. Voice I (3). This course introduces student actors to the basic principles of voice training. Group and individual exercises are designed to stimulate and develop the imagination, physical and sensory awareness, creativity, and the ability to work as part of an ensemble. Focus is on alleviating individual tensions in the vocal musculature that restrict the natural voice. May be repeated to a maximum of nine semester hours.

TPP 3103. Performance II (3). Prerequisite: TPP 2100. This course focuses on the exploration and development of a range of fundamental tools of the acting process, with particular emphasis on vocal production and physical expression in the context of creating and rehearsing scenes and monologues drawn from significant modern and contemporary playwrights, ending with an introduction to the performance of classical Shakespearean texts.

TPP 3265. Acting for the Camera (3). Prerequisite: TPP 2110. This course offers a preliminary look at developing acting techniques for work in television, film, and video media. It explores how actors prepare, rehearse, and perform differently in front of the camera as compared to an onstage production.

TPP 3510r. Movement Techniques for Theatre I (3). Prerequisite: Instructor permission. This course utilizes exercises for self-awareness, physical strength, flexibility, and versatility for the actor. May be repeated to a maximum of six semester hours.

TPP 3511r. Movement Techniques for Theatre II (3). Prerequisite: TPP 3510r and/or instructor permission. This course explores styles of movement and dance, creative presentations, and daily warm-ups. May be repeated to a maximum of six semester hours.

TPP 3711r. Voice II (3). Prerequisite: TPP 2710r. This course continues the study of the first-year basic skills in speaking for the student actor. All actors who are on a professional track for the Bachelor of Fine Arts degree must have thorough knowledge of their speaking voice for the stage, how to use it in their acting studios and stage performances, and how to be a more effective speaker in their everyday life. May be repeated to a maximum of nine semester hours.

TPP 4113r. Acting Techniques III: Acting Problems in Genre and Style (3). Prerequisites: TPP 2110r, TPP 2111r, TPP 3711, and/or instructor permission. This course is an acting workshop oriented to particular problems the actor confronts in dealing with historic periods in dramatic literature or material of post-realistic and contemporary styles and thought. May be repeated to a maximum of nine semester hours.

TPP 4126. Creative Improvisation (3). Prerequisite: TPP 2100. This course examines vital interrelationships between the physical, vocal, and psychological potential in creating a complex, expressive artistic performance.

TPP 4224. Audition Techniques (3). This course is designed as a workshop for advanced actors who are preparing to enter graduate study programs or seek professional work in theatre with some attention paid to work in film and television. The course examines the audition process from the perspectives of both the aspiring performer and the prospective employer.

TPP 4226r. BA Music Theatre Workshop (3). This course provides evaluation, systemization, supervision, and critiques of all performance work undertaken to isolate acting and musical problems that occur in musical theatre and to see their solution in process and performance. The course also examines the audition process and to develop audition packages for professional auditions. May be repeated to a maximum of six semester hours.

TPP 4257. Voice for Musical Theatre (3). Prerequisite: Junior standing. The course focuses on releasing the singer's acting voice, with particular emphasis on increasing breath capacity during movement, deepening and expanding resonance and range, and increasing articulation skills. In the course, students learn to fully embody their voice and speech skills to avoid strain and loss that come from executing sound solely from the throat.

TPP 4310. Directing I (3). Corequisite: THE 4303. This course is a basic techniques course with emphasis on script analysis, fundamentals of staging, and work with actors.

TPP 4403. Devised Theatre: Performance Creation (3). Prerequisite: TPP 3103 or TPP 4310. This advanced acting and directing course focuses on performance creation in response to major works of world literature. Students learn various approaches to devising an autonomous work of theatre. Students invest much effort in rethinking conventional creative processes and production methods.

TPP 4404. Advanced Acting/Directing (3). Prerequisite: TPP 3103 or TPP 4310. This course is a workshop for advanced actors and directors focused on particular problems in contemporary staging of works from selected historic periods.

TPP 4512r. Advanced Movement for the Theatre (3). Prerequisites: TPP 3510r, TPP 3511r, and/or instructor permission. This course focuses on advanced movement techniques and exploration of repertory and choreography. May be repeated to a maximum of six semester hours.

TPP 4531. Stage Combat (3). Prerequisites: TPP 2100 or TPP 2110 and instructor permission. This course explores the development of physical dialogue through armed (rapier and dagger, broadsword, quarterstaff, or knife) and unarmed stage combat applied to acting. Focus is placed on the processes of safety, technique, rehearsal, and performance. Students have the option to participate in the Society of American Fight Directors Skill Proficiency Test.

TPP 4600. Fundamentals of Playwriting (3). This course introduces the craft of playwriting. Functions as a workshop and focuses on the mechanics of structure, form, and marketing.

TPP 4712r. Voice III (3). Prerequisites: TPP 2710r and TPP 3711r. This intermediate course in voice focuses on increasing vocal stamina, breath capacity, range, and freedom on the stage. The course introduces speaking Shakespeare and offers practice with the use of complex language in acting classical texts. May be repeated to a maximum of six semester hours.

TPP 4713r. Voice VI: Vocal Imaginations (3). Prerequisite: TPP 4712. This course is primarily designed to expand the vocal imagination of the student actor. The International Phonetic Alphabet is introduced in an organic manner as a primary tool in the adoption of different speech sounds from those that are natural to each student actor. This course includes a "Speech Sound Donor Project," in which the student actor must study and implement a dialect different from their own natural one, and then must teach it to the group at large. May be repeated to a maximum of six semester hours.

TPP 4730r. Dialects for Stage (3). Prerequisites: TPP 2110r, TPP 3710r, TPP 3711, and/or instructor permission. This course focuses on the techniques of acquiring a dialect for stage performance. Scene study and monologues performed in dialects. Content may vary from semester to semester. May be repeated to a maximum of six semester hours.

TPP 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve semester hours.

TPP 4922r. Performance Workshop in Acting/Directing (2). Prerequisites: BFA candidates only and instructor permission. This course provides evaluating systemization, supervision, and critiques for performance work required for BFA program. May be repeated to a maximum of ten semester hours.

TPP 4923r. Musical Theatre Workshop (2). Prerequisites: BFA candidates only and instructor permission. This course provides evaluation, systemization, supervision, and critiques of all performance work undertaken to isolate acting, dance, and musical problems that occur in musical theatre and to see their solution in performance. May be repeated to a maximum of eight semester hours.

TPP 4940r. Internship in Theatre Performance (1–3). (S/U grade only.) Prerequisites: Completion of all coursework in theatre and instructor permission. This course is a resident internship in an approved professional theatre, shop, or enrichment center. May be repeated to a maximum of six (6) credit hours; repeatable within the same term.

Graduate Courses

THE 5065. Disability and Representation (3).

THE 5084r. Theatre Problems (3).

THE 5120. Advanced Theatre History I: Classical and Medieval (3).

THE 5130. Advanced Theatre History II: Renaissance and 18th Century (3).

THE 5160. Advanced Theatre History III: 19th and 20th Centuries (3).

THE 5238. History of African-American Drama (3).

THE 5246. Musical Theatre History I (3).

THE 5247. Musical Theatre History II (3).

THE 5265r. Historic Costume II (3).

THE 5273r. Seminar: Selected Topics in History of Performance (Acting and Directing) (3).

THE 5274. Seminar in History of Stage Directing (3).

THE 5302. Contemporary U.S. Theatre (3).

THE 5317r. Seminar: Selected Topics in Dramatic Literature and Dramatic Theory (3).
THE 5437. Gender, Race, and Performance (3).
THE 5439. African Theatre and Performance (3).
THE 5486. Graduate Dramaturgy (3).
THE 5765. Performance I for Theatre Educators (3).
THE 5770. Theatre History and Literature I for Theatre Educators (3).
THE 5771. Theatre History and Literature II for Theatre Educators (3).
THE 5772. Theatre History and Literature III for Theatre Educators (3).
THE 5905r. Directed Individual Study (3). (S/U grade only.)
THE 5910. Theatre Bibliography and Research (3).
THE 5916r. Supervised Research (1–5). (S/U grade only.)
THE 5918r. Theatre Tutorial (1–3).
THE 5925r. Writing Workshop (1–3). (S/U grade only.)
THE 5940r. Internship in Theatre (2–12). (S/U grade only.)
THE 6531. Methods of Theatre Criticism (3).
TPA 5009r. Media Design (3).
TPA 5015. Stage Machinery Design and Construction (3).
TPA 5016. Model Making (3).
TPA 5025. Lighting Design I (3).
TPA 5026. Lighting Design II (3).
TPA 5027. Lighting Design III (3).
TPA 5028. Lighting Design IV (3).
TPA 5029. Lighting Design V (3).
TPA 5042r. Advanced Costume Design for the Stage (3).
TPA 5047. Advanced Costume Rendering (3).
TPA 5062. Scene Design: Theory and Practice (3).
TPA 5065. Principles of Scene Design (3).
TPA 5079. Scene Painting (3).
TPA 5080r. MFA Practicum in Design for the Stage (2–15).
TPA 5089. Selected Topics in Advanced Technical Theatre (3).
TPA 5098. Theatrical Design for Theatre Educators (3).
TPA 5207. Technical Directions (3).
TPA 5213. Stage Rigging (3).
TPA 5235r. Selected Topics in Stage Costuming and Makeup Technology (3).
TPA 5236. Advanced Costume Crafts (3).
TPA 5237r. Selected Topics in Costume Design for the Stage (3).
TPA 5242. Advanced Stage Costume Millinery Techniques (3).
TPA 5243. Advanced Period Draping and Fitting Techniques (3).
TPA 5245. Fabric Modification for Stage Costumes (3).
TPA 5247. Advanced Stage Wigs and Specialty Makeup (3).
TPA 5278. Electricity and Electronics for the Stage (3).
TPA 5280r. MFA Practicum in Technical Theatre (2–15).
TPA 5284. Technical Production (3).
TPA 5285. Technical Production and Management (3).
TPA 5286r. Selected Topics in Technical Theatre (3).
TPA 5287. Advanced Costume Patterning (3).
TPA 5306. Structural Design for the Stage II (3).
TPA 5310. Structural Design for the Stage I. (3).
TPA 5315. Physics of Stage Machinery (3).
TPA 5335. Costume Design for Dance (3).
TPA 5336. Costume Design for Film and Television (3).
TPA 5347. Software for Technical Theatre (3).
TPA 5356. Computer Rendering for Costume Designers (3).
TPA 5402. Business Communications in the Arts (3–12).
TPA 5405. Principles of Theatre Management (3).
TPA 5408. Business and Legal Issues in the Arts (3).
TPA 5409. Audience Development and Arts Marketing (3).
TPA 5410. Strategic Governance in the Arts (3).
TPA 5425. Fiscal Management and Economics in the Arts (3).
TPA 5470r. MFA Practicum in Management (2–15).
TPA 5471. Leadership and Organizational Management in Arts (3).
TPA 5905r. Directed Individual Study (3). (S/U grade only.)
TPA 5930r. Select Topics in Management (3).
TPA 5931r. Selected Topics in Stage Design (3).
TPA 5940r. MFA Internship in Technical Theatre, Stage Design, and Management (2–15).
TPA 5941r. MFA Practicum in Costume Technology (1–6).
TPP 5145r. Acting Techniques I (3).
TPP 5146r. Classical Performance Styles (3–6).
TPP 5158. Performance II for Theatre Educators (3).
TPP 5284r. MFA Practicum in Acting (1–15).
TPP 5355. Performance III for Theatre Educators (3).
TPP 5380r. MFA Practicum in Directing (2–15).
TPP 5381. Problems in Directing (3).
TPP 5383. Problems in Directing (3).
TPP 5405. Advanced Performance and Devised Theatre: Laboratory in Performance Creation (3).
TPP 5515r. Movement I (3).
TPP 5516r. Movement II (3).
TPP 5651. Advanced Play Analysis (3).
TPP 5656r. Advanced Play Analysis for Actors (3).
TPP 5715r. Voice I (3).
TPP 5716r. Voice II (3).
TPP 5906r. Directed Individual Study (3). (S/U grade only.)
TPP 5940r. MFA Internship in Theatre Performance (2–15). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

TRANSPORTATION AND TRAFFIC ENGINEERING:
see Civil and Environmental Engineering

TRANSPORTATION PLANNING:
see Urban and Regional Planning

Undergraduate Department of URBAN AND REGIONAL PLANNING

College of Social Sciences and Public Policy

Website: *http://www.coss.fsu.edu/durp/*
Chair: Jeff Brown; **Professors:** Brown, Chapin, Coutts, Doan; **Associate Professors:** Butler, Duncan; **Assistant Professors:** Holmes, Jackson, Fang, Kim; **Teaching Faculty:** Felkner; **Planner in Residence:** Smith; **Professors Emeriti:** Cowart, Deyle, Miles, RuBino, Thompson

The profession of Urban and Regional Planning encompasses all aspects of the development of human settlements, including the use of land, protection of the environment, economic productivity, and the future allocation of physical and social public resources. Planning's initial concern with the form and structure of cities continues, but it has grown to include all aspects of the formulation and implementation of public policy, at all levels of society. Today, the field is a diverse one, incorporating the many issues developed over the past decades and expanding to include new areas of concern. This has resulted in the establishment of new priorities and the emergence of new policy directions, including environmental sustainability, social-ecological resilience, human service delivery systems, affordable housing, attention to job growth, global competitiveness, and access to health services, as well as more traditional activities such as the provision and financing of roads, infrastructure, and public services.

As an institutional and professional activity, planning is now practiced in the public sector at all levels of government and in the private sector through firms that service local governments, development interests, and community groups. At each stage in the development of the profession new skills and knowledge have been called for, creating new employment opportunities and an expansion of the backgrounds held by professionals in the field. Today, planners have ties to the various social sciences, natural sciences, law, engineering, business, the design professions, and others. Consequently, majors from throughout the University have been attracted to the field and have thrived in a discipline that welcomes individuals with backgrounds in science, policy, design, and computer applications.

What unites persons from these various backgrounds into the professional field of planning is a commitment to making the world a better place through collaboration, consensus building, and enlightened and informed public policy. While both the problems and the means for dealing with them may differ, all planners are concerned with systematically studying problems, their likely future levels, and formulating appropriate policies and programs to deal with them. Moreover, unlike many other problem-oriented professions, planning is distinguished by its concern with coordinated policy responses. Planners have adopted a broad view that focuses on the interrelationships between problems and the necessary interrelatedness of solutions.

Above all, planners are committed to a particular concern: improving the "quality of life" in the places they work. This extends to employment, schools, health, housing, community facilities, and the physical, social, and natural environments. While any single professional may focus on a narrower range of issues, the field as a whole focuses on the entire set of issues affecting the livability of the built and natural environment. Planners attempt to address these issues in ways that recognize the differing and legitimate concerns of many diverse and partisan interests. Accordingly, planning is a demanding and exciting field. It is beset by challenges that are created by the difficulties in finding solutions to thorny problems and in obtaining a consensus among diverse interests on policies and programs to address these problems. At the same time, it is a rewarding field. Planners know that they can and do make significant contributions to the well-being of their cities, states, and nations.

The Department of Urban and Regional Planning offers two non-major programs for undergraduates interested in planning and urban affairs. These programs are designed to complement an existing major for those students who wish to develop an appreciation of planning or who wish to lay the foundation for graduate study in planning. These programs are the undergraduate planning studies minor and Combined Bachelor's/Master's Pathway. Within each of these programs, students may satisfy their minor requirements.

Because of the variety of issues and contexts within which planners work, there is no one undergraduate background that is more important than others. Students may combine their interests in planning and urban affairs with undergraduate majors in the variety of social sciences, physical or natural sciences, business, engineering, design professions, communications, criminology and criminal justice, and others.

Planning Studies Minor Program

This program is designed for students who wish to apply their major field to problems and issues in planning and urban affairs. The program consists of a series of courses that provide an overview of planning and that introduce the student to issues, organizations, policies, and implementation strategies. Students may earn a minor in urban and regional planning by completing a four-course sequence that is composed of three required courses and one elective course. URP 3000 is a prerequisite for all of the elective courses as well as URP 4022. Electives are chosen from among a set of introductory courses representing the major policy areas taught by the department. These include land use planning, planning for developing areas, environmental planning, neighborhood planning and community design, and transportation planning.

Students interested in the planning studies minor program are advised to see the department's Academic Programs Specialist for advice on the availability of courses.

Required Courses

URS 1006 World Cities: Quality of Life
URP 3000 Introduction to Planning and Urban Development
URP 4022 Collective Decision Making

Elective Courses (Choose One)

URP 4314 Introduction to Growth Management and Comprehensive Planning
URP 4318 Growth Management and Environmental Planning
URP 4402 Sustainable Development Planning in the Americas
URP 4404 River Basin Management and Planning
URP 4408 Food Systems Planning
URP 4423 Introduction to Environmental Planning and Resource Management
URP 4618 Planning for Developing Regions
URP 4710 Introduction to Transportation Issues and Transportation Planning
URP 4741 Introduction to Issues in Housing and Community Development
URP 4936r Special Topics in Urban and Regional Planning

Combined Bachelor's/Master's Pathway

This undergraduate program is designed for students who anticipate continuing to graduate school to earn the professional master's degree in planning. Students in this program are given the opportunity to begin graduate-level coursework in their senior year and thereby may satisfy some of the requirements of a graduate degree while still completing their undergraduate credit hour requirements. This program is closely coordinated with the department's graduate program, offering students the possibility of preferred admission with advanced standing at the graduate level. Students make application for advanced standing after admission to the master's program.

The Combined Bachelor's/Master's Pathway allows acceleration toward the Master of Science (MS) in planning degree upon satisfactory completion of one required undergraduate course and one to four of the eligible URP graduate courses. URP 3000 is a prerequisite/corequisite for all courses.

Admission to the Combined Bachelor's/Master's Pathway is available only to those undergraduates who are beginning or are in their senior year and who have maintained a cumulative FSU grade point average (GPA) of at least 3.2 or who have earned a satisfactory score on the combined verbal and quantitative portions of the GRE and who have taken or are registered for URP 3000. Students completing this program with an upper-division GPA of at least 3.0 may be offered admission to the master's program in planning with advanced standing for up to twelve semester hours of coursework in which the grade of "B" or higher was earned.

Required Course

URP 3000 Introduction to Planning and Urban Development (3)

Elective Courses (Choose One to Four)

Students interested in the Combined Bachelor's/Master's Pathway are advised to see the department's Master's Program Director for advising on appropriate courses to take.

Definition of Prefixes

URP—Urban and Regional Planning
URS—Urban and Regional Studies

Undergraduate Courses

Liberal Studies for the 21st Century: Social Science

URS 1006. World Cities: Quality of Life (3). In this course, major world cities are examined in terms of their natural, social, and built environments in order to assess those factors that promote quality-of-life and sustainability. Prospects for future growth and change are considered in light of demographic, cultural, economic, and political trends.

Upper Division Courses

URP 3000. Introduction to Planning and Urban Development (3). This course introduces planning concepts and the role of planning in formulating policy, meeting critical problems, and shaping the future urban environment.

URP 4022. Collective Decision Making (3). Prerequisite: URP 3000 or instructor permission. This course provides an introduction to planning as a collective decision-making tool, and introduces the concepts of efficiency, equity, and environmental quality as competing bases for public decisions. The course examines tools for contributing to public decisions in varying circumstances, including unitary and diverse decision makers, certain and uncertain environments, and simple and complex goals.

URP 4314. Introduction to Growth Management and Comprehensive Planning (3). Prerequisite: URP 3000 or instructor permission. This course is an introduction to the problems and needs for growth management and comprehensive planning for U.S. cities, highlighting various planning approaches and strategies available for meeting development, growth, and land-use problems.

URP 4318. Growth Management and Environmental Planning (3). Prerequisite: URP 3000. This course provides a general introduction to growth management and environmental planning through an overview of general planning history, basic legal theory, principles of growth management and land use planning, and introductory environmental management approaches. The first portion of the course covers basic growth management principles, both to identify issues and to study current trends in planning. The second portion of this course covers current practices and approaches to environmental planning that are important to defining environmental planning problems and evaluating alternative courses of action.

URP 4402. Sustainable Development Planning in the Americas (3). Prerequisite: URP 3000 or instructor permission. This course examines various dimensions of the "sustainable development" paradigm and its local-global policy implications, issues, and controversies with a focus upon North America and Latin America. The course is organized into three modules: 1) environmental philosophies that have influenced the movement; 2) North American approaches to planning for sustainable development; and 3) critical issues of sustainable development in Latin America.

URP 4404. River Basin Management and Planning (3). This course introduces river basin management and planning and takes a systemic approach from biological, hydrological, and geopolitical viewpoints. Special emphasis is placed on the planning and management of transboundary (interstate and international) basins. The focus is on world river basin systems as well as on the local Apalachicola-Chattahoochee-Flint basin. Students are introduced to technical concepts and tools, including negotiation and math simulation tools.

URP 4408. Food Systems Planning (3). This course provides a contextual understanding of food systems in the formation of cities, the impacts of food policy on food systems, and planning responses to the many challenges that arise in relation to the globalized food system.

URP 4423. Introduction to Environmental Planning and Resource Management (3). Prerequisite: URP 3000 or instructor permission. This course is a general introduction to the problems of resource management and environmental planning, with an overview of problems and potential solutions and their relation to other public policy areas such as land-use control and regional development.

URP 4618. Planning for Developing Regions (3). Prerequisite: URP 3000 or instructor permission. This course introduces the student to the field of development planning and gives the student exposure to the interplay between theory and practice. Topics include concepts of development, measurement and indicators of patterns of development, rural development, urban development, preparation of development plans, and implementation of development plans.

URP 4710. Introduction to Transportation Issues and Transportation Planning (3). Prerequisite: URP 3000 or instructor permission. This course is an introduction to contemporary U.S. transportation problems, sources of funding, and legislation. Presents the theory and methods employed by planners in the process of resolving transportation problems.

URP 4741. Introduction to Issues in Housing and Community Development (3). Prerequisite: URP 3000 or instructor permission. This course focuses on the operation of the housing market, the nature of the housing and community development problem, and the gradual development of a national housing and community development policy since the 1930s. The course also examines relationships between public and private sectors.

URP 4811. Multicultural Urbanism (3). This course studies past, present, and future urban geographies and the impact urban social and economic policy have on social equity. Students learn the significance of race, gender, ethnicity, and identity in urban development and urban life.

URP 4936r. Special Topics in Urban and Regional Planning (3). This course is a selected topics seminar for the discussion of unique and timely planning related issues. Content varies. May be repeated within the same term. May be repeated to a maximum of fifteen semester hours.

Graduate Courses

Planning Theory and Practice

URP 5059. Community Involvement and Public Participation (3).
URP 5101. Planning Theory and Practice (3).
URP 5122. Planning Dispute Resolution (3).
URP 5123. Collaborative Governance: Consensus Building for Planners (3).
URP 5125. Plan Implementation (3).
URP 5342. Advanced Planning Problems (3).
URP 5544. Gender and Development (3).
URP 5805. Multicultural Urbanism (3).
URP 6102. Seminar in Planning Theory (3).

Planning Methods

URP 5201. Planning Research Methods (3).
URP 5211. Planning Statistics (3).
URP 5222. Planning Alternatives Evaluation (3).
URP 5261. Forecasting for Plan Development (3).
URP 5272. Urban and Regional Information Systems (3).
URP 5279. Urban and Regional Information Systems Practicum (3).
URP 5885. Graphics Communication for Urban Planning and Design (3).
URP 6202. Design of Policy-Oriented Research (3).

Urban Growth Process

URP 5847. Growth and Development of Cities (3).
URP 6846. Seminar in Urban Theory (3).

Planning for Developing Areas

URP 5610. Introduction to Planning for Developing Regions (3).
URP 5611. Strategies for Urban and Regional Development in Less Developed Countries (3).
URP 5616. Project Planning in Developing Countries (3).

Environmental Planning

URP 5405. River Basin Planning and Management (3).
URP 5407. Food Systems Planning (3).
URP 5421. Introduction to Environmental Planning and Natural Resource Management (3).
URP 5422. Coastal Planning (3).
URP 5424. Sustainable Development Planning in the Americas (3).
URP 5425. Methods of Environmental Analysis (3).
URP 5427. Environmental Legislation and Policy (3).
URP 5429r. Special Topics in Environmental Planning and Resource Management (3).
URP 5445. Climate change and Community Resilience (3).

Land Use and Comprehensive Planning

URP 5312. Perspective and Issues of Comprehensive Planning and Growth Management (3).
URP 5316. Land-Use Planning (3).
URP 5350. Pedestrian-Oriented Communities (3).
URP 5731. The Planning of Community Infrastructure (3).
URP 5873. Site Design and Land-Use Analysis (3).
URP 5881. Urban Design (3).

Transportation Planning

URP 5355. International Transportation Planning (3).
URP 5711. The Transportation Planning Process (3).
URP 5716. Transportation and Land Use (3).
URP 5717. Methods of Transportation Planning (3).

Neighborhood Planning and Community Design

URP 5445r. Climate Change and Community Resilience (3).
URP 5540. State and Local Economic Development (3).
URP 5615. Infrastructure and Housing in Less Developed Countries (3).

URP 5742. Problems and Issues in Housing and Community Development (3).
URP 5743. Neighborhood Planning (3).
URP 5749r. Special Topics in Housing and Community Development (3).

Building Healthy Communities

URP 5407. Food Systems Planning (3).
URP 5521. Public Health Epidemiology (3).
URP 5525. Health Behavior and Education (3).
URP 5526. Healthy Cities, Healthy Communities (3).

Other Courses for Graduate Students

URP 5905r. Directed Individual Study (1–3). (S/U grade only.)
URP 5910r. Directed Individual Research (1–3). (S/U grade only.)
URP 5930r. Professional Topics in Urban and Regional Planning (0). (S/U grade only.)
URP 5939r. Special Topics in Urban and Regional Planning (0–3).
URP 6938. Doctoral Research Colloquium (0). (S/U grade only.)
URP 6981r. Supervised Teaching (1–3). (S/U grade only.)

For listings relating to graduate coursework for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

VISUAL DISABILITIES:
see Childhood Education, Reading, and Disability Services

Undergraduate Minor in VALENCIA STUDY CENTER INTERDISCIPLINARY STUDIES

College of Arts and Sciences

Website: *http://valencia.fsu.edu/*
Coordinator: James E. Pitts (International Programs)

The Valencia Study Center minor is focused on the culture of Spain from ancient times to the present. The minor is built around the student's program of studies at the Florida State University Valencia Study Center, allowing the student to study Iberian culture from the perspective of various disciplines and to pursue the minor before, during, and after the student attends the Valencia Program. The minor gives greater focus to and enhances the quality of the student's program of studies in Spain. The sojourn in Valencia is the essential element in the minor, providing direct involvement in contemporary Spanish civilization as well as exposure to Spain's historical cultural artifacts.

Requirements for a Minor in valencia study center interdisciplinary Studies

The interdisciplinary minor requires the completion of fifteen semester hours (to include at least two disciplines) in courses approved by the Valencia Study Center Minor Coordinating Committee. **At least nine semester hours of approved courses must be taken while the student is in residence at the FSU Valencia Study Center.** A maximum of nine semester hours may be counted in any single academic discipline. Students who intend to minor in Valencia Study Center Interdisciplinary Studies should declare this intention with International Programs at the end of the semester in Valencia. Contact Sarah Lovins Bacani at *slovins@fsu.edu* for more information.

The student must have completed at least three semester hours (or the equivalent) in elementary Spanish prior to attending the Valencia Study Center.

A minimum grade of "C–" must be earned for all courses taken for the minor. In addition, a minimum cumulative grade point average (GPA) of 2.0 must be maintained in all courses counted toward the minor.

Core Courses

These courses will be counted in the minor whether they are taken on the Tallahassee campus or in Valencia. Descriptions of these courses may be found under the individual departments in which they are taught.

ARH 4352 Southern Baroque Art (3)
ARH 4372 Spanish Colonial Art: The Hapsburg Period, 1492/1506–1700 (3)
ARH 4413 Spanish Colonial Art: The Bourbon Period, 1700–1821/1898 (3)
HUM 3930r Humanities: Special Topics [Culture and Civilization of Spain] (1–3)
IND 3930 Special Topics in Interior Design [Sketching the City] (3)*
INR 3932 Special Topics in International Affairs [Global Foundations] (3)
MUS 3934r Special Topics in Music [Music of Spain] (1–3)
SPN 3300 Spanish Grammar and Composition (3)
SPN 3400 Spanish Reading and Conversation (3)
SPN 3440 Language and Culture in Business (3) *
SPN 4420 Advanced Spanish Composition and Translation (3)
SPN 4444 Business Writing in Spanish (3) *
SPN 4540r Regional Cultural Studies (3)
SPN 4780 Spanish Phonetics (3) *
SPN 4905r Directed Individual Study in Hispanic Language (3)
SPN 4930r Studies in Hispanic Language and Literature (3)
SPN 4942r Internship in Applied Spanish (1–6)
SPT 3100 Spanish Literature in Translation (3)
SPT 3391r Hispanic Cinema (3)
SPW 3030 Approaching Hispanic Literature (3)
SPW 3103 Readings from Early Iberia (3)
SPW 3104 Readings from Modern Spain (3)
SPW 3493 Readings from Spanish America (3)
SPW 4140r The Poetics of Hispanic Love and Violence (3)
SPW 4150r Transatlantic Encounters (3)
SPW 4481 Contemporary Spanish Women Writers (3)

Note: Courses marked with an asterisk (*) must be taken at the Valencia Study Center.

Note: Each student must have completed at least one introductory course in Spanish (on the freshman level) prior to studying at the Valencia Center in order to qualify for a minor in Valencia Study Center Interdisciplinary Studies. All courses in Spanish (SPN) must be at the 3000 and 4000 level in order to be used toward the minor. Note also that courses used to satisfy the University's foreign language requirement for the BA degree may not also count in the minor.

Related Courses

The following courses may be counted in the minor **only** when they are taken at the Valencia Study Center and the syllabus shows that at least fifty percent of the material presented is relevant to the minor.

ANT 2100 Introduction to Archaeology (3)
ANT 2100L Introduction to Archaeology Laboratory (1)
ANT 4142 European Prehistory (3)
ARH 2000 Art, Architecture & Artistic Vision (3)
ARH 4211 Early Medieval Art (3)
ARH 4230 Later Medieval Art (3)
ARH 4355 18th Century Art (3)
ART 1300C Drawing Foundations (3)
CPO 3103 Comparative Government and Politics: Western Europe (3)
ECO 4704 International Trade (3)
ECO 4713 International Finance (3)
ENC 3310 Article and Essay Technique (3)
ENC 4311r Advanced Article and Essay Workshop (3)
EUH 2000 Ancient and Medieval Civilizations (3)
EUH 3205 19th Century Europe: A Survey (3)
EUH 3206 20th Century Europe: A Survey (3)
EUH 4121 Earlier Middle Ages (3)
EUH 4124 The Crusades (3)
EUH 4140 Renaissance (3)
EUH 4144 Reformation (3)
EUH 4602 European Intellectual History, 1500–1800 (3)
EUH 4603 European Intellectual History, 1800 to Present (3)
FIN 3244 Financial Markets, Institutions, and International Finance Systems (3)
FIN 4604 Multinational Financial Management (3)
HIS 4930r Special Topics in History (3)
HIS 4935r Senior Seminar (3)
HUM 2020 The Art of Being Human: Examining the Human Condition Through Literature, Art, and Film (3)
HUM 2235 Humanities: From The Renaissance to The Enlightenment (3)
HUM 2250 Humanities: 18th Century Romanticism to Postmodernism (3)
HUM 3930r Humanities: Special Topics (1–3)
HUN 2125 Food and Society (3)
IDS 2060 Global Engagement (1)
IDS 2370 Festivals: Artisanship, Satire, and Fire (3)
IDS 2464 Crossing the Atlantic: Lorca in America, Hemingway in Spain (3)
MAN 3600 Multinational Business Operations (3)
MAN 4605 Cross-Cultural Management (3)
MAN 4631 International Strategic Management (3)
MAN 4680r Selected Topics in International Management (3)
MAR 4156 Multinational Marketing (3)
MUH 2012 Music in Western Culture: 19th and 20th Centuries (3)
MUH 2051 Music in World Cultures (3)
PHH 3061 Medieval and Renaissance Philosophy (3)
PGY 2100C Photo for Non-Art Majors (3)
REL 3363 The Islamic Tradition (3)
REL 3607 The Jewish Tradition (3)
REL 4613 Modern Judaism (3)
SPN 4540r Regional Cultural Studies (3)
SPN 4942r Internship in Applied Spanish (1–6)
SPT 3391r Hispanic Cinema (3)
SPW 4190r Special Topics in Hispanic Languages and Literature (3)
SPW 4301r Hispanic Culture and Performance (3)
SPW 4930r Studies in Hispanic Literature (3)
SYD 4700 Race and Minority Group Relations (3)
THE 4110 European Theater History I (3)
THE 4111 European Theater History II (3)

With the exception of any Spanish courses below the 3000 level offered, all courses at the Valencia Center may be counted toward the Valencia Study Center minor if a course syllabus shows that at least fifty percent of the material presented is relevant to the minor, and provided the Valencia Center Minor Coordinating Committee has given prior approval for their inclusion in the minor. In addition, special topics courses offered on the Florida State University campus on a one-time basis may be counted if the coordinating committee approves them. To have such courses considered, petition the Coordinating Committee, International Programs, *University Center A5500, Tallahassee, FL, 32306-2420*.

Courses used toward the Valencia Study Center minor cannot be used to meet any other University requirement (general education, major, graduation, etc.)

Undergraduate Program in WOMEN'S STUDIES AND WOMEN'S GENDER, AND SEXUALITY STUDIES

College of Arts and Sciences

Website: *http://ws.artsandsciences.fsu.edu/*

Director: Maxine Jones (History/Women's Studies); **Participating Faculty:** Falk, Thomas (Anthropology); Lindbloom (Art); Bearor, Neuman (Art History); N. DeGrummond, Fulkerson, Pullen, Sickinger, Slaveva-Griffin, (Classics); Jordan, Laurents, McDowell, Nudd (Communication); Schwartz (Education); Edwards, Gaines, Gardner, Goodman, Lathan, Laughlin, McGregory, Montgomery, Richardson, (English); Rehm (Family and Child Sciences); Herrera, Hicks, Jones, Koslow, McClive, Mooney, Renfro, Sinke, Upchurch Jr. (History); Ralston (Human Sciences); Stoddard (Humanities); Boutin, Cappuccio, Leushuis, Maier-Katkin, Poey, Wang (Modern Languages and Linguistics); Mahaffey, Morales (Philosophy); Eckel, Hull, Keel, Kistner (Psychology); Cuevas, Dupuigrenet, Kalbian, Kavka, Kelsay (Religion); Ashmore, Dwyer, Edwards, Gomory, Verano, Wilke (Social Work); Barrett, Brewster, Buggs, Lessan, Munson, Padavic, Roach, Rohlinger, Schrock, Taylor, Tillman, Waggoner (Sociology); Osborne (Theatre); Doan, (Urban and Regional Planning)

The programs in Women's Studies and Women's, Gender, and Sexuality Studies examine the accomplishments and perspectives of women in history, culture, and contemporary society. The programs establish gender and sexuality as fundamental categories of social and cultural analysis. Drawing on disciplines across the university, the programs offer interdisciplinary perspectives from which to study the diversity of human experience. The courses foster critical analysis of the social meaning of gender and gender expression and examine sexual identities, discourses, and institutions as they intersect with class, race, ethnicity, nationality, and transnational movements, drawing on the full range of approaches adopted within feminist and Queer scholarship.

Admission Requirements

Please review all college-wide degree requirements in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Any student with a 2.0 grade average who meets the admission requirements of the College of Arts and Sciences is eligible to declare a major in Women's Studies. Students who wish to declare a major in Women's Studies must apply for admission with the Women's Studies office and complete an advising form.

Computer Skills Competency

All undergraduates at Florida State University must demonstrate basic computer skills competency prior to graduation. As necessary computer competency skills vary from discipline to discipline, each major determines the courses needed to satisfy this requirement. Undergraduate majors in Women's Studies satisfy this requirement by earning a grade of "C–" or higher in CGS 2060 or CGS 2100.

Requirements for a Major in Women's Studies

Students are required to take thirty-three semester hours of Women's Studies courses and approved cross-listed courses distributed as described below. Only one of these courses that is used to satisfy the requirement for liberal studies may also be counted toward the fulfillment of the major. Honors thesis hours may be applied toward the Bachelor of Arts (BA) degree, but only three semester hours will be accepted for major credit. All courses counted toward the major must carry the grade of "C–" or better. Majors must maintain a 2.0 grade point average for graduation. Women's Studies majors are required to complete a minor and are strongly encouraged to complete a minor in a single discipline. No course used to satisfy requirements for a minor may be counted for the major.

Double Majors

Students pursuing a double major must meet the program requirements of both majors, with the following exceptions: (1) no more than six semester hours may be counted toward both majors; and (2) no minors are required for the double major.

Distribution

WST Requirement

Twelve semester hours in WST interdisciplinary courses:

a. WST 3015 Introduction to Women's Studies (3)
b. WST 3251 Women in Western Culture: Images and Realities (3)
c. WST 4613 Contemporary Gendercide (3)
d. WST 4931 Seminar in Women's Studies (3) or WST 4930r Topics in Women's Studies (3)
e. Either WST 4940r Women's Studies Internship (3–6) or WST 4930r Topics in Women's Studies (3) as approved by the program director.

Check with the Women's Studies office each term for a list of possible courses that can be used to fulfill these credits.

Note: WST 4930r may be repeated to a maximum of nine semester hours and WST 4931 is a non-repeatable course.

Cross-Listed Core Courses

At least twelve semester hours of cross-listed courses listed below are required. Specifically required are three semester hours from each of the four groups below:

Group A

AMH	**4561**	Women in 19th-Century America (3)
AMH	**4562**	Women in Modern America (3)
AMH	**4684**	Women and Children in the Civil Rights Movement (3)
CLA	**3501**	Gender and Society in Ancient Greece (3)
CLA	**3502**	Women, Children and Slaves in Ancient Rome: The Roman Family (3)
HIS	**3205**	LGBTQ history (3)
REL	**3145**	Gender and Religion (3)
REL	**3337**	Goddesses, Women and Power in Hinduism (3)

Group B

ANT	**4302**	Sex Roles in Cross-Cultural Perspective (3)
LIT	**4554**	Feminist Theory (3)
PHM	**3123**	Philosophy of Feminism (3)
SOP	**3742**	Psychology of Women (3)
SYD	**3800**	Sociology of Sex and Gender (3)
SYO	**4374**	Gender, Work, and Family (3)

Group C

FOW	**3240**	Literature and Sexuality (3)
FRT	**3561**	French Women Writers (3)
LIT	**3383**	Women in Literature (3)
LIT	**4385**	Major Women Writers (3)
SPW	**4481**	Contemporary Spanish Women Writers (3) (In Spanish)
SPW	**4491**	Spanish American Women Writers (3) (In Spanish)
THE	**4433**	Gender, Race, and Performance (3)

Group D

CCJ	**4663**	Women, Crime, and Justice (3)
GEO	**4412**	Environment and Gender (3)
NSP	**3425**	Women's Health Issues: Concerns Through the Life Cycle (3)
SOW	**4108**	Women's Issues and Social Work (3)
SOW	**4615**	Family Violence Across the Life Span (3)
SOW	**4627**	Mental Health of Diverse Populations (3)
SPC	**4711**	Gender and Communication (3)

Electives

Nine semester hours may be selected from among the following options: (a) WST 4904r Directed Individual Study in Women's Studies, WST 4930r Topics in Women's Studies, WST 4940r Women's Studies Internship; (b) the cross-listed courses in Groups A-D; (c) approved related courses, special topics courses, seminars, and workshops. Three semester hours of the major elective requirement may be satisfied with a 2000-level course, including, but not necessarily limited to AMH 2096 Black Women in America and PHM 2121 Philosophy of Race, Class, and Gender; however, the course must be taken at Florida State University, and only one of the listed classes may be counted toward credit in the program in Women's Studies. Majors should consult with the Women's Studies advisor each term for a list of approved courses that can be used to fulfill elective credits.

Exit Surveys/Interviews

To be eligible for graduation, students majoring in Women's Studies must complete an exit interview or survey.

Honors in the Major

The Women's Studies Program offers a program in honors in the major to encourage talented students to undertake independent and original research. Students admitted to honors in the major may apply up to six semester hours of honors thesis hours (WST 4970r, Honors Thesis—Women's Studies) toward the Bachelor of Arts (BA) degree, but only three semester hours of WST 4970r will be accepted for major credit. For requirements and other information, see the "University Honors Office and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Women's Studies

At least fifteen semester hours of approved courses, distributed as follows:

1. At least three semester hours of interdisciplinary Women's Studies courses selected from: WST 3015 (Introduction to Women's Studies), WST 3251 (Women in Western Culture: Images and Realities), WST 4930r (Topics in Women's Studies), WST 4931 (Seminar in Women's Studies)
2. At least nine semester hours of cross-listed core courses
3. The remaining three semester hours may be selected from approved WST courses, cross-listed core courses, approved special topics courses, or related courses. No 2000-level courses may be used to fulfill credit for the minor.

Minors should consult with the Women's Studies staff each term for a list of approved courses that can be used to fulfill these three credits.

Only one approved course from the student's major may count toward the Women's Studies minor, and only if the course has not been used for credit toward the major. Courses counted for the minor may not be used to fulfill requirements for liberal studies or the major. Students who intend to minor in Women's Studies should declare their intent with the program director at least two semesters before graduation. Students must have at least a "C–" average in the minor.

Approved Courses

Undergraduate Courses

Interdisciplinary Women's Studies Courses

WST 3015 Introduction to Women's Studies (3)
WST 3251 Women in Western Culture: Images and Realities (3)
WST 4613 Contemporary Gendercide (3)
WST 4904r Directed Individual Study (1–3)
WST 4930r Topics in Women's Studies (3)
WST 4931 Seminar in Women's Studies (3)
WST 4940r Women's Studies Internship (3–6)
WST 4970r Honors Thesis—Women's Studies (1–6)

Cross-Listed Core Courses

AMH 4561 Women in 19th-Century America (3)
AMH 4562 Women in Modern America (3)
AMH 4684 Women and Children in the Civil Rights Movement (3)
ANT 4302 Sex Roles in Cross-Cultural Perspective (3)
CCJ 4663 Women, Crime, and Justice (3)
CLA 3501 Gender and Society in Ancient Greece (3)
CLA 3502 Women, Children and Slaves in Ancient Rome: The Roman Family (3)
FOW 3240 Literature and Sexuality (3)
FRT 3561 French Women Writers (3)
GEO 4412 Environment and Gender (3)
HIS 3205 LGBTQ History (3)
LIT 3383 Women in Literature (3)
LIT 4385 Major Women Writers (3)
LIT 4554 Feminist Theory (3)
NSP 3425 Women's Health Issues: Concerns Through the Life Cycle (3)
PHM 3123 Philosophy of Feminism (3)
REL 3145 Gender and Religion (3)
REL 3337 Goddesses, Women and Power in Hinduism (3)
SOP 3742 Psychology of Women (3)
SOW 4108 Women's Issues and Social Work (3)
SOW 4615 Family Violence Across the Life Span (3)
SOW 4627 Mental Health of Diverse Populations (3)
SPC 4630 Rhetoric of Women's Issues (3)
SPC 4711 Gender and Communication (3)
SPW 4481 Contemporary Spanish Women Writers (3) *(In Spanish)*
SPW 4491 Spanish American Women Writers (3) *(In Spanish)*
SYD 3800 Sociology of Sex and Gender (3)
SYO 4374 Gender, Work, and Family (3)
THE 4433 Gender, Race, and Performance (3)

Note: See the appropriate individual departments for full course descriptions.

Graduate Courses

AMH 4562 Women in Modern America (3)
AMH 5567 Women in 19th Century America (3)
AMH 5935 Women and Children in the Civil Rights Movement (3)
CCJ 5672 Gender, Crime, and Justice (3)
EDF 5706 Gender and Education in Comparative Perspective (3)
EUH 5548 Sex and Class in England, 1750–1914 (4)
LIT 5388r Studies in Women's Writing (3)
LIT 5517r Studies in Gender in Literature (3)
SOW 5109 Women's Issues and Social Work (3)
SOW 5153 Human Sexuality (3)
SOW 5614 Family Violence Across the Life Span (3)
SOW 5628 Mental Health of Diverse Populations (3)
SPW 5486 Contemporary Spanish Women Writers (3) *(In Spanish)*
SPW 5496 Spanish-American Women Writers (3) *(In Spanish)*
SYD 5225 Fertility (3)
SYD 5817 Contemporary Theories of Gender (3)
SYO 5177 Family Demography (3)
SYO 5376 Sociology of Gender and Work (3)
SYO 5547 Race and Gender in Organizations (3)
SYP 6356 Sociology of the Contemporary Women's Movement (3)
THE 5437 Gender, Race, and Performance (3)
URP 5544 Gender and Development (3)
WST 5905r Directed Independent Study (1–3)
WST 5934r Topics in Women's Studies (3)

Note: See the appropriate individual department chapters in the *Graduate Bulletin* for full course descriptions.

Definition of Prefix

WST—Women's Studies

Undergraduate Courses

WST 3015. Introduction to Women's Studies (3). This course introduces students to the field of Women's Studies. Topics include the construction of gender and gender roles in varying social and cultural contexts. Women's roles are examined from a variety of perspectives, which may include social class, religion, culture, and sexuality. The course includes an overview of theories of feminism.

WST 3251. Women in Western Culture: Images and Realities (3). This course is an interdisciplinary examination of women's roles in the development of Western culture, focusing on women's contributions to literature, theatre, art, religion, political thought, and science. Concurrently, this course examines what it meant to be female in each era of Western civilization.

WST 4613. Contemporary Gendercide (3). This course teaches students about contemporary gendercides, or the systematic killing of members of a specific sex. The course discusses both femicide (the killing of women) and androcide (the killing of men). Throughout this class, students examine instances of gendercide in the 20th and 21st centuries and explore the reasons for this phenomenon.

WST 4904r. Directed Individual Study (1–3). Prerequisite: Permission from the program director. This course is for advanced undergraduates who desire to supplement regular course offerings by independent reading or research under guidance. May be repeated to a maximum of three semester hours.

WST 4930r. Topics in Women's Studies (3). This course explores specific topics or themes in gender/women's studies based on a feminist approach. A variety of topics from different fields of study will be offered from an interdisciplinary perspective. Topics of material not covered in the regular curriculum are offered. May be repeated to a maximum of nine semester hours.

WST 4931. Seminar in Women's Studies (3). Prerequisite: At least two women's studies core courses. Corequisite: Permission from the program director. This senior seminar examines how cultures structure and represent gender in a variety of arenas. Through critical reading of key contemporary works of feminist theory and intensive investigation of multidisciplinary case studies, students study the variety of representations of women's experience.

WST 4940r. Women's Studies Internship (3–6). (S/U grade only.) Prerequisite: Two core courses in women's studies. Corequisite: Permission from the program director. The internship offers practical experience working on women's issues or with women as a focus group in governmental and private agencies, women's organizations, or business. Internships may be arranged for junior and senior minors and majors in women's studies with the women's studies office. May be repeated to a maximum of six semester hours.

WST 4970r. Honors Thesis–Women's Studies (1–6). Prerequisite: WST 3251. For this course, the honors thesis in women's studies is a research document of an interdisciplinary nature, drawing on the various categories in humanities and the social sciences represented in the Women's Studies program. Permission of WST director required. May be repeated to a maximum of nine semester hours.

Graduate Courses

WST 5616. Contemporary Gendercide (3).

WST 5905r. Directed Independent Study (1–3). (S/U grade only.)

WST 5934r. Topics in Women's Studies (3).

WRITING:
see English

ZOOLOGY:
see Biological Science

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http://president.fsu.edu/

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http://provost.fsu.edu/

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Vice President for Finance and Administration:

http://www.vpfa.fsu.edu

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- **Mitchell Kilcrease,** Assistant Vice President of Business Services
- **Michael Lake,** Chief Budget Officer
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- **Angela McCausland,** Senior Director for Enterprise Resource Planning (ERP)
- **Rosey Murton,** Chief Procurement Officer
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- **Pamela Ray,** Senior Director of Sponsored Research Administration Services
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- **Curtis Sommerhoff,** Director of Emergency Management
- **Jim Stephens,** Executive Director of Maintenance and Utilities
- **Colleen Thomas,** Assistant Director of Campus Access and Security Systems
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Vice President for University Advancement:

http://advancement.fsu.edu

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http://studentaffairs.fsu.edu/

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- **Sarah Lull Castillo,** Assistant Dean and Director, Victim Advocate Program
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- **Jennifer Mitchell,** Assistant Dean and Director, Office of Accessibility Services
- **Christopher Morris,** Director of Campus Recreation
- **Aron Myers,** Director of Marketing and Communications
- **Dana O'Connor,** Director of FSU Child Care and Early Learning Program
- **Dorsey Spencer, Jr.,** Director of Administration
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Vice President for Research:

http://www.research.fsu.edu

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- **Jenn Garye,** Director of Business Operations
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  http://gradschool.fsu.edu/
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  https://dedman.fsu.edu/
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  http://humansciences.fsu.edu/
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  http://jimmoranschool.fsu.edu/
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  http://www.law.fsu.edu/
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  http://www.med.fsu.edu/
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  http://film.fsu.edu/
- **Patricia J. Flowers,** College of Music:
  http://www.music.fsu.edu/
- **Laurie Grubbs,** Interim Dean, College of Nursing:
  http://nursing.fsu.edu/
- **Timothy Chapin,** College of Social Sciences and Public Policy:
  http://coss.fsu.edu/
- **James J. Clark,** College of Social Work:
  http://csw.fsu.edu/

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Distinguished Research Professors

Harper, William C., MS, Distinguished Research Professor, 1990–1991, Professor of Studio Art (Retired)

O'Brien, James J., PhD, Texas A&M; Distinguished Research Professor, 1990–1991, Robert O. Lawton Distinguished Professor, 1999–2000, Professor of Meteorology and Oceanography, and Russian Academy of Natural Science (Retired)

Tam, Christopher K. W., PhD, California Institute of Technology; Distinguished Research Professor, 1990–1991, Robert O. Lawton Distinguished Professor, 2000–2001, Professor of Mathematics and Mechanical Engineering

Eisenberg, Daniel, PhD, Brown; Distinguished Research Professor, 1991–1992, Professor of Modern Languages (Resigned)

Loper, David E., PhD, Case Western Reserve; Distinguished Research Professor, 1991–1992, George W. DeVore Professor of Geological Sciences, 1999, and Director, Geophysical Fluid Dynamics Institute (Retired)

Parker, Glenn R., PhD, California; Distinguished Research Professor, 1991–1992, Professor of Political Science

Benson, Bruce L., PhD, Texas A&M; Distinguished Research Professor, 1992–1993, Professor of Economics

Graziadei, Pasquale P., MD, Pavia, Italy; Distinguished Research Professor, 1992–1993, Professor of Biological Science (Retired)

Sumners, Dewitt L., PhD, Cambridge; Distinguished Research Professor, 1992–1993, Robert O. Lawton Distinguished Professor, 1997–1998, and Professor of Mathematics (Retired)

Kemper, Kirby W., PhD, Indiana; Distinguished Research Professor, 1993–1994, John David Fox Professor of Physics, 2000, and Robert O. Lawton Distinguished Professor, 2002–2003 (Retired)

Nam, Charles B., PhD, North Carolina; Distinguished Research Professor, 1993–1994, Professor of Sociology (Retired)

Turner, Ralph V., PhD, Johns Hopkins; Distinguished Research Professor, 1993–1994, Service Professor of History (Retired)

Bryant, John L., PhD, Georgia; Distinguished Research Professor, 1994–1995, Professor of Mathematics (Retired)

Freeman, Marc E., PhD, West Virginia; Distinguished Research Professor, 1994–1995, Lloyd M. Beidler Professor of Biological Science, 2000 (Retired)

Owens, Joseph F., III, PhD, Tufts; Distinguished Research Professor, 1994–1995, Chair and Guenter Schwarz Professor of Physics, 2000

Hollander, Myles, PhD, Stanford; Distinguished Research Professor, 1995–1996, Robert O. Lawton Distinguished Professor, 1998–1999, and Professor of Statistics

James, Frances C., PhD, Arkansas; Distinguished Research Professor, 1995–1996, Pasquale Grazidei Professor of Biological Science, 1999 (Retired)

Stern, Melvin E., PhD, Massachusetts Institute of Technology; Distinguished Research Professor, 1995–1996, V. W. Ekman Professor of Oceanography, and National Academy of Sciences (Deceased)

Pfeffer, Richard, PhD, Massachusetts Institute of Technology; Distinguished Research Professor, 1996–1997, Carl-Gustaf Rossby Professor of Meteorology (Retired)

Torgesen, Joseph, PhD, Michigan; Distinguished Research Professor, 1996–1997, Robert M. Gagne Professor of Psycology and Education, 2000, and Professor of Psychology (Retired)

Van Sciver, Steven W., PhD, Washington; Distinguished Research Professor, 1996–1997, Professor of Mechanical Engineering

Hagopian, Vasken, PhD, Pennsylvania; Distinguished Research Professor, 1997–1998, Joseph E. Lannutti Professor of Physics, 1999 (Retired)

Myles, John F., PhD, Wisconsin; Distinguished Research Professor, 1997–1998, Professor of Sociology

Nicholson, Sharon E., PhD, Wisconsin; Distinguished Research Professor, 1997–1998, Heinz and Katharina Lettau Professor of Climatology, 2002, and Professor of Meteorology

Balkwill, David L., PhD, Pennsylvania State; Distinguished Research Professor, 1998–1999, Professor of Biological Science

Hirsh, Barry T., PhD, Virginia; Distinguished Research Professor, 1998–1999, Professor of Economics

Marshall, Alan George, PhD, Stanford; Distinguished Research Professor, 1998–1999, Kasha Professor of Chemistry, 1999

Gontarski, Stanley E., PhD, Ohio State; Distinguished Research Professor, 1999–2000, Sarah Herndon Professor of English, 1999

Holton, Robert A., PhD, Florida State; Distinguished Research Professor, 1999–2000, Matthew Suffness Professor of Chemistry, 2002

Clarke, Allan J., PhD, Cambridge; Distinguished Research Professor, 2000–2001, Adrian E. Gill Professor of Oceanography, 2001

Cross, Timothy A., PhD, Pennsylvania; Distinguished Research Professor, 2000–2001, Earl Frieden Professor of Chemistry and Biochemistry, 2002

Olsen, Dale A., PhD, California at Los Angeles; Distinguished Research Professor, 2000–2001, Professor of Music (Retired)

Fenstermaker, John J., PhD, Ohio State; Distinguished Research Professor, 2001–2002, Distinguished Teaching Professor, 2000–2001, Fred L. Standley Professor of English, 2002 (Retired)

Tabor, Samuel, PhD, Stanford; Distinguished Research Professor, 2001–2002, Professor of Physics

Taylor, Kenneth A., PhD, California at Berkeley; Distinguished Research Professor 2001–2002, Professor of Biological Science

Dalal, Nar S., PhD, British Columbia; Dirac Professor of Chemistry, 2001, Distinguished Research Professor, 2002–2003, and Chair of Chemistry

Nof, Doron, PhD, Wisconsin; Distinguished Research Professor, 2002–2003, and Fridtjof Nansen Professor of Oceanography, 2001

Tschinkel, Walter R., PhD, California at Berkeley; Distinguished Research Professor, 2002–2003, and Margaret Y. Menzel Professor of Biological Science, 1999

Berkley, Karen J., PhD, Washington; Distinguished Research Professor, 2003–2004, McKenzie Professor and Professor of Psychology (Retired)

Perrewe, Pamela L., PhD, Nebraska; Distinguished Research Professor, 2003–2004, and Professor of Management

Standley, Jayne M., PhD, Florida State; Distinguished Research Professor, 2003–2004, and Ella Scoble Opperman Professor of Music, 2000

Brooks, James S., PhD, Oregon; Distinguished Research Professor, 2004–2005, Grace C. and William G. Moulton Professor of Physics, 2002

Chandra, Namas, PhD, Texas A&M; Distinguished Research Professor, 2004–2005, Krishnamurty Karamcheti Professor of Engineering, 2000, and of Mechanical Engineering

Roux, Kenneth H., PhD, Tulane; Distinguished Research Professor, 2004–2005, Professor of Biological Science

Chanton, Jeffrey Paul, PhD, North Carolina at Chapel Hill; Distinguished Research Professor, 2005–2006, John Widmer Winchester Professor of Oceanography, 2002, and Professor of Oceanography and Geological Sciences

Kelsay, John E., PhD, Virginia; Distinguished Research Professor, 2005–2006, Richard L. Rubenstein Professor of Religion, 2000, and Chair of Religion

Von Molnar, Stephan, PhD, California at Riverside; Distinguished Research Professor, 2005–2006, Robert A. Kromhout Professor of Physics, 2001, and Director, Center for Materials Research and Technology

Wagner, Richard K., PhD, Yale; Distinguished Research Professor, 2005–2006, Alfred Binet Professor of Psychology, 1999

Joiner, Thomas E., Jr., PhD, Texas at Austin; Distinguished Research Professor, 2006–2007, Bright-Burton Professor of Psychology

Riley, Mark A., PhD, Liverpool; Distinguished Research Professor, 2006–2007, Raymond K. Sheline Professor of Physics, 2001

Sathe, Shridhar K., PhD, Utah State; Distinguished Research Professor, 2006–2007, Distinguished Teaching Professor, 2002–2003, D.K. Salunkhe Professor of Food Science, 2001, Professor of Nutrition, Food and Exercise Sciences

Winegardner, Mark, MFA; Distinguished Research Professor, 2006–2007, Janet M. Burroway Professor of English, 2001

de Grummond, Nancy T., PhD, North Carolina; Distinguished Research Professor, 2007-2008, M. Lynette Thompson Professor of Classics, 1999

Manousakis, Efstratios, PhD, Illinois at Urbana-Champaign; Distinguished Research Professor, 2007-2008, Donald Robson Professor of Physics, 2003, Professor of Physics, and Scholar/Scientist, Computational Science and Information Technology

Schlenoff, Joseph, PhD, Massachusetts, Amherst; Distinguished Research Professor, 2007-2008, Leo Mandelkern Professor of Polymer Science, 2003, Professor of Chemistry and Biochemistry

Johnson, Suzanne B., PhD, State University of New York at Stony Brook; Distinguished Research Professor, 2008–2009, Professor and Chair of Medical Humanities and Social Sciences (Retired)

Prosper, Harrison B., PhD, Manchester, Britain; Distinguished Research Professor, 2008–2009, Kirby Kemper Professor of Physics

Turner, Robert J., PhD, Syracuse; Distinguished Research Professor, 2008–2009, Marie E. Cowart Professor of Epidemiology and Sociology

Burnett, William C., PhD, Hawaii; Distinguished Research Professor, 2009-2010, Carl Henry Oppenheimer Professor of Oceanography, 2002

Locke, Bruce R., PhD, North Carolina State; Distinguished Research Professor, 2009-2010, Professor of Engineering

Rikvold, Per Arne, PhD, Temple; Distinguished Research Professor, 2009-2010, James Gust Skofronick Professor of Physics, 2003, Professor of Physics and Scholar/Scientist, School of Computational and Information Technology

Wetherby, Amy, PhD, California at Santa Barbara; Distinguished Research Professor, 2009-2010, Laurel L. Schendel Professor of Communication Disorders, 2000

Lonigan, Chris, PhD, State University of New York at Stony Brook; Distinguished Research Professor, 2010-2011, Professor of Psychology

Wang, Ben, PhD, Pennsylvania State; Distinguished Research Professor, 2010-2011, Simon Ostrach Professor of Engineering

Yancey, Kathleen Blake, PhD, Purdue; Distinguished Research Professor, 2010-2011, Kellogg W. Hunt Professor of English

Zhou, Huan-Xiang, PhD, Drexel; Distinguished Research Professor, 2010-2011, Professor of Physics

Berg, Bernd, PhD, Free University of Berlin; Distinguished Research Professor, 2011-2012, Paul A. Dirac Professor of Physics

Chassignet, Eric, PhD, Miami; Distinguished Research Professor, 2011-2012, Director, Center for Ocean-Atmospheric Prediction Studies (COAPS), Professor of Physical Oceanography

Taylor, Gary, PhD, Cambridge; Distinguished Research Professor, 2011-2012; George Matthew Edgar Professor of English

Wang, Zuoxin, PhD, Massachusetts, Amherst; Distinguished Research Professor, 2011-2012; Professor of Psychology

Alamo, Rufino, PhD, Complutense University of Madrid; Distinguished Research Professor, 2012-2013; Professor of Chemistry and Biomedical Engineering

Schmidt, Norman "Brad", PhD, University of Texas at Austin; Distinguished Research Professor, 2012-2013; Professor of Psychology

Whalley, David, PhD, University of Virginia; Distinguished Research Professor, 2012-2013; Professor of Computer Science

Falk, Dean, PhD, University of Michigan-Ann Arbor; Distinguished Research Professor, 2013-2014; Professor of Anthropology

McMahon, Darrin, PhD, Yale University; Distinguished Research Professor, 2013-2014; Ben Welder Professor of History

Srivastava, Anuj, D.Sc., Washington University, St. Louis; Distinguished Research Professor, 2013-2014; Professor of Statistics

Spector, Alan, PhD, Florida State University; Distinguished Research Professor, 2014-2015; Professor of Psychology

Gilbert, David, PhD, Stanford University; Distinguished Research Professor, 2014-2015; Professor of Biological Science

Becker, Betsy A., PhD, University of Chicago, Distinguished Research Professor, 2016; Professor of Education

Piekarewicz, Jorge, PhD, University of Pennsylvania, Distinguished Research Professor, 2016; Professor of Physics

Corrigan, John A., PhD, University of Chicago, Distinguished Research Professor, 2017; Lucius Moody Bristol Distinguished Professor, Edwin Scott Gaustad Professor of Religion and Professor of History

Reina, Laura, PhD, University of Rome "La Sapienza", Distinguished Research Professor, 2017; Professor of Physics

Thyer, Bruce A., PhD, University of Michigan-Ann Arbor, Distinguished Research Professor, 2017; Professor of Social Work

Distinguished Teaching Professors

Clark, Ronald J., PhD, Kansas; Distinguished Teaching Professor, 1989–1990, Professor of Chemistry (Retired)

Hofer, Kurt G., PhD, Vienna; Distinguished Teaching Professor, 1989–1990, Robert O. Lawton Distinguished Professor, 1994–1995, Professor of Biological Science (Retired)

Horward, Donald D., PhD, Minnesota; Distinguished Teaching Professor, 1989–1990, Eminent Scholar and Professor of History (Retired)

Madsen, Clifford K., PhD, Florida State; Distinguished Teaching Professor, 1989–1990, Alumni Professor, 1985-1988, Robert O. Lawton Distinguished Professor, 1988–1989, Professor of Music (Retired)

Mellon, Edward K., PhD, Texas; Distinguished Teaching Professor, 1989–1990, Chair and Professor of Chemistry (Retired)

Jones, James P., PhD, Florida; Distinguished Teaching Professor, 1990–1991, Professor of History

Lhamon, W. T., Jr., PhD, Indiana; Distinguished Teaching Professor, 1990–1991, George M. Harper Professor of English, 2000 (Retired)

Rashotte, Michael E., PhD, Toronto; Distinguished Teaching Professor, 1990–1991, Professor of Psychology

Rogers, William W., PhD, North Carolina; Distinguished Teaching Professor, 1990–1991, Professor of History (Retired)

Sandon, Leo, PhD, Boston; Distinguished Teaching Professor, 1990–1991, Chair and Professor of Religion, and Director, Program in American Studies (Retired)

Burroway, Janet G., MA, Distinguished Teaching Professor, 1991–1992, Service Professor of English, Robert O. Lawton Distinguished Professor, 1995–1996, and Mckenzie Professor, 1986 (Retired)

Levenson, David B., PhD, Harvard; Distinguished Teaching Professor, 1992–1993, Associate Professor of Religion

Smith, James C., PhD, Florida State; Distinguished Teaching Professor, 1993–1994, Professor of Psychology, Robert O. Lawton Distinguished Professor, 1992–1993 (Retired)

Leach, Stephen P., PhD, Florida State; Distinguished Teaching Professor, 1994–1995, Assistant Scholar/Scientist of Computer Science

Walker, Eric C., PhD, North Carolina at Chapel Hill; Distinguished Teaching Professor, 1995–1996, Professor of English

Darling, Carol A., PhD, Michigan State; Distinguished Teaching Professor, 1996–1997, Professor of Family and Child Sciences, and Margaret Rector Sandels Professor of Human Sciences, 1999

Goldsby, Kenneth A., PhD, North Carolina; Distinguished Teaching Professor, 1997–1998, Associate Professor of Chemistry

Moore, Dennis D., PhD, North Carolina; Distinguished Teaching Professor, 1998–1999, Associate Professor of English

Reiser, Robert A., PhD, Arizona State; Distinguished Teaching Professor, 1999–2000, Professor of Educational Research

Fenstermaker, John J., PhD, Ohio State; Distinguished Teaching Professor, 2000–2001, Distinguished Research Professor, 2001–2002, Fred L. Standley Professor of English, 2002 (Retired)

Sathe, Shridhar, PhD, Utah State; Distinguished Teaching Professor, 2002–2003, D.K. Salunkhe Professor of Food Science, 2001, and Professor of Nutrition, Food and Exercise Sciences

Everage, Karen Burgess, MS, Florida State; Distinguished Teaching Professor, 2003–2004, and Associate In Mathematics

Ouimet, Charles C., PhD, Brown; Distinguished Teaching Professor, 2004–2005, Professor and Faculty Scholar in Neuroscience

Carroll, Pamela S., EdD, Auburn; Distinguished Teaching Professor, 2005–2006, Dwight L. Burton Professor of English Education, 2006, and Professor of Middle and Secondary Education

Kirby, David K., PhD, Johns Hopkins; Distinguished Teaching Professor, 2006–2007, Robert O. Lawton Distinguished Professor, 2003–2004, McKenzie Professor, 1989, Professor of English

Christiansen, William A., PhD, Utah; Distinguished Teaching Professor, 2007–2008, Chair and Associate Professor of Finance

Ziegler, Mark, MA; Distinguished Teaching Professor, 2008–2009, Associate In Communications

Coats, Pamela K., PhD, Nebraska-Lincoln; Distinguished Teaching Professor, 2009–2010, Robert C. Earnest Professor of Finance, 2002

Quandagno, Jill, PhD, Kansas; Distinguished Teaching Professor, 2010-2011, Mildred and Claude Pepper Eminent Scholar in Social Gerontology, 1987, and Professor of Sociology

Mcwey, Lenore M., PhD, Florida State; Distinguished Teaching Professor, 2011-2012, Associate Professor of Family and Child Sciences

Shaftel, Matthew R., PhD, Yale; Distinguished Teaching Professor, 2012-2013, Associate Professor of Music

Schwabe, Annette M., PhD, Kent State University; Distinguished Teaching Professor, 2013-2014, Senior Teaching Faculty in Sociology

Terebelski, Patricia Spears, PhD, Florida State University; Distinguished Teaching Professor, 2014-2015, Teaching Faculty III in Biological Science

Scott, Lisa A., PhD, University of Nebraska; Distinguished Teaching Professor 2015-2016; Director of Clinical Education, L.L. Schendel Speech and Hearing Clinic

Raney, Arthur A., PhD, University of Alabama; Distinguished Teaching Professor 2016-2017; James E. Kirk Professor of Communication

Erickson, Gregory M., PhD, University of California-Berkeley; Distinguished Teaching Professor, 2017-2018; Professor of Biological Science

Parks, IV, John W., DMA, Eastman School of Music; Distinguished Teaching Professor, 2018-2019; Professor of Music (Percussion)

Ormsbee, Michael J., PhD, East Carolina University, Greenville, NC; Distinguished Teaching Professor, 2019-2020; Professor of Nutrition, Food, and Exercise Sciences

McKenzie Professors

Berkley, Karen J., PhD, Washington; Distinguished Research Professor, 2003–2004, McKenzie Professor 1989, Professor of Psychology (Retired)

Burroway, Janet G., MA, McKenzie Professor 1987, Service Professor of English (Retired)

Dye, Thomas R., PhD, Pennsylvania; McKenzie Professor 1987, Service Professor of Political Science

Hintikka, Jaako, PhD, Helsinki, Finland; McKenzie Professor 1987, Professor of Philosophy (Retired)

Howard, Louis N., PhD, Princeton; McKenzie Professor 1987, Professor of Mathematics (Retired)

Hunter, Christopher, PhD, Cambridge; McKenzie Professor 1991, Chair and Profes-

sor of Mathematics (Retired)

Kirby, David K., PhD, Johns Hopkins; McKenzie Professor, 1989, Robert O. Lawton Distinguished Professor, 2003–2004, Professor of English,

Winstead, William O., MM, McKenzie Professor 1987, Professor of Music (Resigned)

Daisy Parker Flory Alumni Professors

Madsen, Clifford K., PhD, Florida State; Alumni Professor 1985–1988, Distinguished Professor 1988–1989, Distinguished Teaching Professor, 1989–1990, Professor of Music (Retired)

Martin, Patricia Y., PhD, Florida State; Alumni Professor 1989, Professor of Sociology (Retired)

Standley, Fred L., PhD, Northwestern; Alumni Professor 1985, Professor of English (Retired)

Eppes Professors

Baumeister, Roy F., PhD, Princeton; Eppes Professor, 2002, Professor of Psychology

Butler, Robert O., MA, Eppes Professor 2000, Professor of English

Farrell, Suzanne, Eppes Professor, 2000, Professor of Dance

Ferris, Gerald R., PhD, Illinois at Urbana-Champaign; Eppes Professor, 2000, Professor of Management and Psychology

Foorman, Barbara R., PhD, California at Berkeley; Eppes Professor, 2006, Professor of Education

Froelich, Phillip, PhD, Rhode Island; Eppes Professor, 2003, Professor of Oceanography (Retired)

Greene, Laura, PhD, Cornell University; Eppes Professor, 2015, Professor of Physics, National High Magnetic Field Laboratory

Gunzburger, Max D., PhD, New York; Eppes Professor, 2002, Professor of Scientific Computing

Kroto, Harold W., PhD, University of Sheffield; Eppes Professor of Chemistry, 2004, and Nobel Laureate in Chemistry, 1996 (Deceased)

LaPointe, Leonard L., PhD, Colorado at Boulder; Eppes Professor, 2000, Professor of Communication Disorders

Larbalestier, David C., PhD, Imperial College London; Eppes Professor, 2006, Professor of Superconducting Materials

McClure, Charles R., PhD, Rutgers; Eppes Professor, 1999, Professor of Information Studies

Scholz, John T., PhD, California at Berkeley; Eppes Professor, 2001, Professor of Law

Swofford, David L., PhD, University of Illinois Central Campustown; Eppes Professor, 2001, Professor of Biology

Zwilich, Ellen T., MM, Eppes Professor 1999, Professor of Music

Edgar Professors

Taylor, Gary I., PhD, University of Cambridge; George Matthew Edgar Professor, 2005, Professor of English

The President and the Provost's Named Professorship Program

Anderson, Thomas L., PhD, Georgia; Jessie Lovano-Kerr Professor of Art Education, 2003

Baer, Howard A., PhD, Wisconsin; J. Daniel Kimel Professor of Physics, 2002

Baumer, Eric, PhD, State Univerity of New York at Albany, Allen E. Liska Professor of Criminology, 2008

Beckham, Joseph C., JD, PhD, Florida; Allan Tucker Professor of Educational Policy Studies and Leadership, 2000, Professor of Educational Leadership

Berg, Bernd A., PhD, Free University of Berlin; Paul A. Dirac Professor of Physics, 2005

Berry, Frances, PhD, Minnesota; Frank Sherwood Professor of Public Administration, 2004

Berry, William D., PhD, Minnesota; Marian D. Irish Professor of Political Science, 1999

Bickley, R. Bruce, Jr., PhD, Duke; Griffith T. Pugh Professor of English, 2002 (Retired)

Bishop, Wendy, PhD, Indiana of Pennsylvania; Kellogg W. Hunt Professor of English, 2000 (Deceased)

Blomberg, Thomas G., D.Crim., Berkeley; Sheldon L. Messinger Professor of Criminology, 2001

Boehrer, Bruce T., PhD, Pennsylvania; Bertram H. Davis Professor of English, 2001

Bowers, Philip L., PhD, Tennessee; Dwight B. Goodner Professor of Mathematics, 2002 and Associate Chair of Mathematics

Bridger, Carolyn A., D.MA, Iowa; John Boder Professor of Music, 2002 (Retired)

Brooks, James S., PhD, Oregon; Grace C. and Willian G. Moulton Professor of Physics, 2002

Bryant, John L., PhD, Georgia; Orville G. Harrold Professor of Mathematics, 2000, Distinguished Research Professor, 1994–1995 (Retired)

Burnett, William C., PhD, Hawaii; Carl Henry Oppenheimer Professor of Oceanography, 2002

Carroll, Pamela S., EdD, Auburn; Dwight L. Burton Professor of English Education, 2005, Distinguished Teaching Professor, 2005–2006, and Professor of Middle and Secondary Education

Case, Bettye Anne, PhD, Alabama; Olga Larson Professor Of Mathematics, 2003

Chandra, Namas, PhD, Texas A&M; Krishnamurty Karamcheti Professor of Engineering, 2000, and Professor of Mechanical Engineering

Chanton, Jeffrey P., PhD, North Carolina; John Widmer Winchester Professor of Oceanography, 2002, and Professor of Oceanography and Geological Sciences

Charness, Neil H., PhD, Carnegie Mellon; William G. Chase Professor of Psychology, 2005

Chiricos, Theodore G., PhD, Massachusetts, Amherst; William J. Wilson Professor of Criminology and Criminal Justice, 2005

Clarke, Allan J., PhD, Cambridge; Adrian E. Gill Professor of Oceanography, 2001, Distinguished Research Professor, 2000–2001

Cloonan, William J., PhD, North Carolina at Chapel Hill; Richard L. Chapple Professor of Modern Languages and Linguistics, 1999

Coats, Pamela K., PhD, Nebraska at Lincoln; Robert C. Earnest Professor of Finance, 2002

Collins, Emmanuel, PhD, Purdue; Associate Chair and John H. Seely Professor of Mechanical Engineering, 2003

Connerly, Charles E., PhD, Michigan; William G. and Budd Bell Professor of Urban and Regional Planning, 2002, and Chair of Urban and Regional Planning (Retired)

Contreras, Robert J., PhD, Michigan State; James C. Smith Professor of Psychology, 2002, and Director of Neuroscience

Corrigan, John A., PhD, Chicago; Edwin S. Gaustad Professor of Religion, 2000

Cottle, Paul, PhD, Yale; Steve Edwards Professor of Physics 2004

Cross, Timothy A., PhD, Pennsylvania; Earl Frieden Professor of Chemistry and Biochemistry, 2002, Distinguished Research Professor, 2000–2001

Crow, Jack E., PhD, Rochester; John and Geraldine P. Schuler Professor of Physics, 2003 (Deceased 9/3/04)

Dagotto, Elbio R., PhD, Instituto Balseiro; Edward A. Desloge Professor of Physics, 2001, and Scholar/Scientist, School of Computational Science and Information Technology

Dalal, Nar S., PhD, British Columbia; Dirac Professor of Chemistry, 2001, Distinguished Research Professor, 2002–2003, and Chair of Chemistry

Darling, Carol A., PhD, Michigan State; Margaret Rector Sandels Professor of Human Sciences, 1999, Distinguished Teaching Professor, 1996–1997, and Professor of Family and Child Sciences

Darrow, Alice-Ann, PhD, Florida State; Irvin Cooper Professor of Music, 2003

Davis, Lynda J., MFA, Nellie-Bond Dickinson Professor of Dance, 2003

de Grummond, Nancy T., PhD, North Carolina; M. Lynette Thompson Professor of Classics, 1999

Delp, Roy E., MM; Walter S. James Professor of Voice, 2001, Professor of Music (Retired)

Dewar, William K., PhD, Massachusetts Institute of Technology; Pierre Welander Professor of Oceanography, 2001, and Faculty Associate, School of Computational Science and Information Technology

Dorsey, John, PhD, Cincinnati; Katherine Blood Hoffman Professor of Chemistry, 2000

Dresang, Eliza T., PhD, Wisconsin-Madison; Eliza Atkins Gleason Professor of Information Studies, 2003 (Retired)

Driscoll, Marcy P., PhD, Massachusetts; Leslie J. Briggs Professor of Educational Research, 2002, and Chair of Educational Psychology and Learning Systems

Eberstein, Isaac Warren, PhD, Texas at Austin; Charles Meade Grigg Professor of Sociology, 2001, Chair of Sociology, and Research Associate, Center for the Study of Population

Ellington, W. Ross, PhD, Rhode Island; Michael J. Greenberg Professor of Biological Sciences, 2001, and Director, Institute of Molecular Biophysics

Falk, Dean, PhD, Michigan; Hale G. Smith Professor of Anthropology, 2003, Chair and Professor of Anthropology

Feiock, Richard C., PhD, Kansas; Augustus B. Turnbull Professor of Public Administration, 2004

Fenstermaker, John J., PhD, Ohio State; Fred L. Standley Professor of English, 2002, Distinguished Teaching Professor, 2000–2001, Distinguished Research Professor, 2001–2002 (Retired)

Fernandez, Roberto G., PhD, Florida State; Dorothy Lois Breen Hoffman Professor of Modern Languages and Linguistics, 2001

Fiorito, Jack T., PhD, Illinois; J. Frank Dame Professor of Management, 1999

Fisk, Zachary, PhD, California at San Diego; Paul A.M. Dirac Professor of Physics, 1999, National Academy of Sciences

Fleming, Raymond R., PhD, Harvard; John Francis Dugan Professor of Modern Languages and Linguistics, 2005 (Retired)

Freeman, Marc, PhD, West Virginia; Lloyd M. Beidler Professor of Biological Science, 2000, Distinguished Research Professor, 1994–1995 (Retired)

Fuelberg, Henry, PhD, Texas A&M; David W. Stuart Professor of Meteorology 2004
Gellately, Robert J., PhD, London; Earl Ray Beck Professor of History
Geringer, John M., PhD, Florida State; Lewis V. Pankaskie Professor of Music, 2001, and Director, Center for Music Research
Goff, Bryan, MM; Robert T. Braunagel Professor of Music, 2004 (Retired)
Goldsmith, Ronald E., PhD, Alabama; Richard M. Baker Professor of Marketing, 2001
Goldstein, Howard, PhD, Vanderbilt; Donald M. Baer Professor of Communication Sciences and Disorders, 2003, Professor of Communication Disorders
Gontarski, Stanley E., PhD, Ohio State; Sarah Herndon Professor of English, 1999, Distinguished Research Professor, 1999–2000
Hagopian, Vasken, PhD, Pennsylvania; Joseph E. Lannutti Professor of Physics, 1999, Distinguished Research Professor, 1997–1998 (Retired)
Hahn, Cynthia, PhD, Johns Hopkins; Gulnar K. Bosch Professor of Art History, 2000
Hardy, Melissa, PhD, Indiana; Raymond F. Bellamy Professor of Sociology, 2000, and Program Director, Pepper Institute on Aging
Hawkins, Hunt, PhD, Stanford; James M. McCrimmon Professor of English, 2003, Professor and Chair of English (Resigned)
Haymes, Emily M., PhD, Pennsylvania State; C. Etta Walters Professor of Exercise Science, 2000, and Professor of Nutrition, Food, and Exercise Sciences (Retired)
Heald, Gary R., PhD, Michigan State; Theodore Clevenger, Jr. Professor of Communication, 2001, and Associate Dean of Communication
Herrnkind, William F., PhD, Miami; Robert K. Godfrey Professor of Biological Science, 2000
Hirsch, Adam J., PhD, JD, Yale; David M. Hoffman Professor of Law, 2002
Holton, Robert A., PhD, Florida State; Matthew Suffness Professor of Chemistry, 2000, Distinguished Research Professor, 1999–2000
James, Frances C., PhD, Arkansas; Pasquale Graziadei Professor of Biological Science, 1999, Distinguished Research Professor, 1995–1996 (Retired)
Joiner, Thomas, PhD, Texas at Austin; Bright-Burton Professor of Psychology, 2000
Jumonville, Neil T., PhD, Harvard; William Warren Rogers Professor of History, 1999
Kacmar, K. Michele, PhD, Texas A&M; Charles A. Rovetta Professor of Management, 2000
Kelsay, John, PhD, Virginia; Richard L. Rubenstein Professor of Religion, 2000, and Chair of Religion
Kemper, Kirby, PhD, Indiana; John David Fox Professor of Physics, 2000, Distinguished Research Professor, 1993–1994, Robert O. Lawton Distinguished Professor, 2002–2003, and Chair of Physics
Kiefer, Douglas W., Donald Brittain Professor of Cinematography, 2000, and Associate in Film, School of Motion Picture, Television, and Recording Arts
Kowalsky, Frank, D.MA, Catholic; Joseph A. White Professor of Music, 2000
Krafft, Marie E., PhD, Virginia Polytechnic Institute; Martin A. Schwartz Professor of Chemistry and Biochemistry, 2002
Krishnamurti, Ruby E., PhD, California at Los Angeles; J. Stewart Turner Professor of Oceanography, 2003, Professor of Oceanography, and Research Associate, Geophysical Fluid Dynamics Institute (Retired)
Kroto, Harold W., PhD, University of Sheffield; Francis Eppes Professor of Chemistry, 2004, and Nobel Laureate in Chemistry, 1996 (Deceased)
Lang, Alan R., PhD, Wisconsin; R. Robert Browning Professor of Psychology, 2001
Lhamon, William T., PhD, Indiana; George M. Harper Professor of English, 2000, Distinguished Teaching Professor, 1990–1991 (Retired)
Loper, David E., PhD, Case Western Reserve; George W. DeVore Professor of Geological Sciences, 1999, Distinguished Research Professor, 1991–1992, and Director, Geophysical Fluid Dynamics Institute (Retired)
MacPherson, David A., PhD, Pennsylvania; Abba Lerner Professor of Economics, 1999
Manousakis, Efstratios, PhD, Illinois at Urbana-Champaign; Donald Robson Professor of Physics, 2003, Professor of Physics, and Scholar/Scientist, Computational Science and Information Technology
Marcus, Nancy H., PhD, Yale; Mary Sears Professor of Oceanography 2000, Robert O. Lawton Distinguished Professor, 2001–2002
Marshall, Alan G., PhD, Stanford; Kasha Professor of Chemistry, 1999, Distinguished Research Professor, 1998–1999
Mazza, Nicholas F., PhD, Florida State; Patricia V. Vance Professor of Social Work, 2005
McElrath, Joseph R., PhD, South Carolina; William Hudson Rogers Professor of English, 1999 (Retired)
McKeague, Ian, PhD, North Carolina; Ralph A. Bradley Professor of Statistics, 2000
McNeece, C. Aaron, PhD, Michigan; Walter W. Hudson Professor of Social Work, 2000 (Retired)
Meighan, Patrick, MM; Alfred N. Tipton Professor of Music, 2004
Moffatt, Robert J., PhD, Michigan; Georgia Alice Stamford Professor of Exercise Science, 2000, and Chair of Nutrition, Food, and Exercise Sciences
Muscha, Colleen L., MFA, Don Stowell, Jr. Professor of Theatre, 2003
Nicholson, Sharon E., PhD, Wisconsin; Heinz and Katharina Lettau Professor of Climatology, 2001, Distinguished Research Professor, 1997–1998, and Professor of Meteorology
Nof, Doron, PhD, Wisconsin; Fridtjof Nansen Professor of Oceanography, 2001, Distinguished Research Professor, 2002–2003
Nowakowski, Richard, PhD, Harvard; Randolph L. Rill Professor of Biomedical Sciences, 2009
Ohlsson, Eric P., B.M.Ed., Ohio State; Charles O. DeLaney Professor of Music, 2003
Ortiz-Taylor, Sheila, PhD, California at Los Angeles; Francis G. Townsend Professor of English, 2000 (Retired)
Outlaw, William H., Jr., PhD, Georgia; Peter H. Homann Professor of Biological Science, 2001 (Retired)
Owens, Joseph, PhD, Tufts; Guenter Schwarz Professor of Physics, 2000, Distinguished Research Professor, 1994–1995
Peters, Michael, PhD, Ohio State; Elvin J. Dantin Professor of Engineering, 2000, and Chair of Chemical Engineering
Pfeffer, Richard L., PhD, Massachusetts Institue of Technology; Carl-Gustaf Rossby Professor of Meteorology, 1999, Distinguished Research Professor, 1996–1997 (Retired)
Pietralunga, Mark F., California at Berkeley; Victor Oelschläger Professor of Modern Languages, 2000, and Chair of Modern Languages and Linguistics
Pohl, Mary E., PhD, Harvard; Laura Jepsen Professor of Anthropology, 2003 (Retired)
Porterfield, Amanda, PhD, Stanford; Robery A. Spivey Professor of Religion, 2003, Visiting Professor of Religion, College of Arts and Sciences
Portman, Richard R., Gordon Sawyer Professor of Recording Arts, 1999, and Assistant in Film, School of Motion Picture, Television, and Recording Arts
Prosper, Harrison B., PhD, Manchester, Britain; Kirby Kemper Professor of Physics, 2005, Distinguished Research Professor, 2009–2010
Quine, John R., PhD, Michigan; Charles W. McArthur Professor of Mathematics, 2002
Rasmussen, David, PhD, Washington; James H. Gapinski Professor of Economics, 2000, Director, DeVoe L. Moore Center for Critical Issues
Reiser, Robert A., PhD, Arizona State; Robert M. Morgan Professor of Instructional Systems, 2003, Professor of Educational Research, Distinguished Teaching Professor, 1999-2000
Reynolds, John, PhD, Ohio State; Fraternal Order of Eagles Professor in the Pepper Institute of Aging, College of Social Sciences, 2010
Rikvold, Per Arne, PhD, Temple; James Gust Skofronick Professor of Physics, 2003, Professor of Physics and Scholar/Scientist, School of Computational and Information Technology
Riley, Mark, PhD, Liverpool; Raymond K. Sheline Professor of Physics, 2000
Roberts, Thomas M., PhD, Notre Dame; Robert B. Short Professor of Biological Science, 2002, and Chair of Biological Science
Roux, Kenneth H., PhD, Tulane; Kurt G. Hofer Professor of Biological Science, 2004, Distinguished Research Professor, 2004–2005, Professor of Biological Science
Ruhl, John B., LL.M., George Washington; J.D., Virginia; Joseph Story Professor of Law, 2001
Sathe, Shridhar, PhD, Utah State; D.K. Salunkhe Professor of Food Science, 2001, Distinguished Teaching Professor, 2002–2003, and Professor of Nutrition, Food and Exercise Sciences
Schlenoff, Joseph, PhD, Massachusetts, Amherst; Leo Mandelkern Professor of Polymer Science, 2003, Professor of Chemistry and Biochemistry
Schwartz, Justin, PhD, Massachusetts Institute of Technology; Jack E. Crow Professor of Engineering, 2004
Seaton, S. Douglass, PhD, Columbia; Warren D. Allen Professor of Music, 2002
Standley, Jayne, PhD, Florida State; Ella Scoble Opperman Professor of Music, 2000, Distinguished Research Professor, 2003–2004
Stephan, Friedrich, PhD, California at Berkeley; Curt P. Richter Professor of Psychology and Neuroscience, 2000
Stern, Melvin E., PhD, Massachusetts Institute of Technology; V.W. Ekman Professor of Oceanography, 1999, Distinguished Research Professor, 1995–1996, National Academy of Sciences (Deceased)
Tabor, Samuel L., PhD, Stanford; Norman P. Heydenburg Professor of Physics, 2003, Distinguished Research Professor, 2001–2002; Professor of Physics
Tatum, W. Jeffrey, PhD, Texas; Olivia Nelson Dorman Professor of Classics, 2000, Chair of Classics
Taylor, Kenneth A., PhD, California at Berkeley; Donald L. D. Caspar Professor of Biological Sciences, 2005, Distinguished Research Professor 2001–2002, Professor of Biological Science
Tenenbaum, Gershon, PhD, Chicago; Benjamin S. Bloom Professor of Education, 2004
Thomas, Andre, D.MA, Illinois; Owen F. Sellers Professor of Music, 1999
Torgesen, Joseph, PhD, Michigan; 1996–1997, Robert M. Gagne Professor of Psychology and Education, 2000 Distinguished Research Professor (Retired)
Tschinkel, Walter R., PhD, California at Berkeley; Margaret Y. Menzel Professor of Biological Science, 1999, Distinguished Research Professor, 2002–2003
Turner, Robert J., PhD, Syracuse; Marie E. Cowart Professor of Epidemiology and

Sociology, 2004, Professor of Sociology (Resigned)

Van Sciver, Steven W., PhD, Washington; John H. Gorrie Professor of Mechanical Engineering, 2005, Distinguished Research Professor, 1996–1997, and Professor of Mechanical Engineering

Von Molnar, Stephan, PhD, California at Riverside; Robert A. Kromhout Professor of Physics, 2001, and Director, Center for Materials Research and Technology

Wagner, Richard K., PhD, Yale; Alfred Binet Professor of Psychology, 1999

Walters, Lori J., PhD, Princeton; Harry F. Williams Professor of French, 2005, Distinguished Research Professor 2001–2002, Professor of Modern Languages and Linguistics

Wang, Hsu-Pin (Ben), PhD, Pennsylvania State; Simon Ostrach Professor of Engineering, 2000, and Chair of Industrial Engineering

Wetherby, Amy, PhD, California at Santa Barbara; Laurel L. Schendel Professor of Communication Disorders, 2000

Whalley, David, PhD, Virginia; E.P. Miles Professor of Computer Science, 2003

Winegardner, Mark D., MFA, Janet G. Burroway Professor of English, 2001

Wise, Sherwood W., PhD, Illinois; Lyman D. Toulmin Professor of Geological Sciences, 2001

Yancey, Kathleen, PhD, Purdue; Kellogg W. Hunt Professor of English, 2005

Young, Marilyn, PhD, Pittsburgh; Wayne C. Minnick Professor of Communication, 2000

Zollar, Jawole Willa Jo, MFA, Florida State; Nancy Smith Fichter Professor of Dance, 1999

Zou, Xiaolei, PhD, Institute of Atmospheric Physics; Jule Charney Professor of Meteorology, 2003

Zwaan, Rolf A., PhD Utrecht, Netherlands; F.C. Donders Professor of Psychology, 2006 (Resigned)

Robert O. Lawton Distinguished Professors

Beidler, Lloyd Mumbauer, PhD, Johns Hopkins; Distinguished Professor 1971–1972, Professor of Biological Science (Retired)

Bradley, Ralph Allan, PhD, North Carolina; Distinguished Professor 1970–1971, Professor and Head of Statistics (Deceased 10/30/01)

Burroway, Janet G., MA, Distinguished Professor 1995–1996, McKenzie Professor, Service Professor of English (Retired)

Chanton, Jeffrey P. PhD, University of North Carolina at Chapel Hill, Distinguished Professor, 2017-2018, Professor of Earth, Ocean & Atmospheric Science (Marine Science)

Choppin, Gregory R, PhD, Texas; Sc.D., Loyola; Distinguished Professor 1967–1968, Professor of Chemistry (Retired)

Cross, Timothy A., PhD, Pennsylvania; Distinguished Professor 2019–2020, Distinguished Research Professor, 2000–2001, Earl Frieden Professor of Chemistry and Biochemistry, 2002

Dalal, Naresh S., PhD, British Columbia; Distinguished Professor 2012-2013, Distinguished Research Professor 2002–2003, Dirac Professor of Chemistry

Fallon, Richard Gordon, MA; Distinguished Professor 1975–1976, Professor and Dean Emeritus, School of Theatre (Retired)

Fichter, Nancy Smith, PhD, Texas Woman's University; Distinguished Professor 1991–1992, Chair and Professor of Dance (Retired)

Floyd, Carlisle, Jr., MM, Distinguished Professor 1964–1965, Professor of Music (Resigned)

Frieden, Earl, PhD, Southern California; Distinguished Professor 1969–1970, Professor of Chemistry (Retired)

Friedmann, E. Imre, PhD, Vienna; Distinguished Professor 1991–1992, Professor of Biological Science (Retired)

Gagne, Robert M., PhD, Brown; Distinguished Professor 1982–1983, Professor of Research, Development, and Foundations (Retired)

Gilmer, Robert, PhD, Louisiana State; Distinguished Professor 1981–1982, Professor of Mathematics (Retired)

Gontarski, Stanley E., PhD, Ohio State; Distinguished Professor 2008–2009, Sarah Herndon Professor of English 1999, Distinguished Research Professor 1999-2000

Greaves, Richard L., PhD, London; Distinguished Professor 1989–1990, Professor of History (Deceased)

Grunwald, Ernest Max, PhD, California; Distinguished Professor 1960–1961, Professor of Chemistry (Resigned)

Gunzburger, Max D., PhD, New York; Distinguished Professor 2015-2016, Processor of Scientific Computing

Harper, George M., PhD, North Carolina; Distinguished Professor 1979–1980, Professor of English (Deceased)

Herz, Werner, PhD, Colorado; Distinguished Professor 1987–1988, Robert O. Lawton Professor of Chemistry (Retired)

Hess, Seymour L., PhD, Chicago; Distinguished Professor 1978–1979, Professor of Meteorology (Deceased)

Hofer, Kurt G., PhD, Vienna; Distinguished Professor 1994–1995, Distinguished Teaching Professor 1989–1990, Professor of Biological Science (Retired)

Hoffman, Dorothy Lois Breen, PhD, Illinois; Distinguished Professor 1963–1964, Professor of Modern Languages and Linguistics (Deceased)

Hollander, Myles, PhD, Stanford; Distinguished Professor, 1998–1999, Distinguished Research Professor, 1995–1996, Professor of Statistics

Housewright, Wiley Lee, EdD, New York; Distinguished Professor 1961–1962, Professor and Dean, School of Music (Retired)

Hunt, Kellogg Wesley, PhD, Iowa; Distinguished Professor 1972–1973, Professor of English (Deceased)

Irish, Marian Doris, PhD, Yale; Distinguished Professor 1958–1959, Professor and Chair of Political Science (Deceased)

Joiner, Thomas E., PhD, Texas at Austin; Distinguished Professor 2010-2011, Distinguished Research Professor 2006-2007, Bright-Burton Professor of Psychology

Kasha, Michael, PhD, California; Distinguished Professor 1962–1963, Professor of Chemistry and Director, Institute of Molecular Biophysics (Deceased)

Kemper, Kirby W., PhD, Indiana; Distinguished Professor, 2002–2003, Chair and Professor of Physics, and John David Fox Professor of Physics, Distinguished Research Professor, 1993–1994 (Retired)

Kenshalo, Daniel Ralph, PhD, Washington; Distinguished Professor 1974–1975, Professor of Psychology (Retired)

Kirby, David K., PhD, Johns Hopkins; Distinguished Professor, 2003–2004, Professor of English, McKenzie Professor, 1989

Krishnamurti, Tiruvalam N., PhD, Chicago; Distinguished Professor 1985–1986, Professor of Meteorology (Retired)

Liddell, Anna Forbes, PhD, North Carolina; Distinguished Professor 1959–1960, Professor of Philosophy (Deceased)

Madsen, Clifford K., PhD, Florida State; Distinguished Professor 1988–1989, Alumni Professor 1985–1988, Distinguished Teaching Professor 1989–1990, Professor of Music (Retired)

Mandelkern, Leo, PhD, Cornell; Distinguished Professor 1984–1985, Professor of Chemistry (Retired)

Marcus, Nancy H., PhD, Yale; Distinguished Professor, 2001–2002, Mary Sears Professor of Oceanography, 2000, and Dean of Graduate Studies

Marshall, Alan George, PhD, Stanford; Distinguished Professor 2006–2007, Distinguished Research Professor, 1998-1999, Kasha Professor of Chemistry 2000

Nichols, Eugene D., PhD, Illinois; Distinguished Professor 1968–1969, Professor and Head of Mathematics Education (Retired)

Nikolaidi, Elena, Distinguished Professor 1976–1977, Professor of Music (Deceased)

O'Brien, James J., PhD, Texas A&M; Distinguished Professor, 1999–2000, Distinguished Research Professor, 1990–1991, Professor of Meteorology and Oceanography, and Russian Academy of Natural Science (Retired)

Perrewe, Pamela, PhD, University of Nebraska; Distinguished Professor 2018–2019, Haywood and Betty Taylor Eminent Scholar of Business Administration

Proschan, Frank, PhD, Stanford; Distinguished Professor 1984–1985, Professor of Statistics (Retired)

Riley, Mark Anthony, PhD, Liverpool; Distinguished Professor 2014–2015, Raymond K. Sheline Professor of Physics

Robson, Donald, PhD, Melbourne, Australia; Distinguished Professor 1990–1991, Professor of Physics, and Scientist/Scholar, School of Computational Science and Information Technology (Retired)

Rogers, William Hudson, PhD, Virginia; Distinguished Professor 1957–1958, Professor of English, (Deceased)

Rubenstein, Richard Lowell, PhD, Harvard; Distinguished Professor 1977–1978, Professor of Religion (Retired)

Sathe, Shridhar, PhD, Utah State; Distinguished Professor 2013-2014, D.K. Salunkhe Professor of Food Science, 2001, Distinguished Teaching Professor, 2002–2003, and Professor of Nutrition, Food and Exercise Sciences

Savage, I. Richard, PhD, Columbia; Distinguished Professor 1973–1974, Professor of Statistics (Resigned)

Schlenoff, Joseph B., PhD, University of Massachusetts, Amherst, Distinguished Professor, 2016-2017, Professor of Chemistry

Sethuraman, Jayaram, PhD, Indian Statistical Institute; Distinguished Professor 1993–1994, Professor of Statistics

Sheline, Raymond K., PhD, California at Berkeley; Distinguished Professor 1966–1967, Professor of Chemistry and Physics, and Royal Danish Academy of Science and Letters (Retired)

Simberloff, Daniel, PhD, Harvard; Distinguished Professor 1986–1987, Professor of Biological Science (Resigned)

Smith, James C., PhD, Florida State; Distinguished Professor 1992–1993, Distinguished Teaching Professor 1993–1994, Professor of Psychology (Retired)

Standley, Jayne M., PhD, Florida State; Distinguished Professor, 2005–2006, Distinguished Research Professor, 2003–2004, and Ella Scoble Opperman Professor of Music, 2000

Sumners, Dewitt L., PhD, Cambridge; Distinguished Professor 1997–1998, Distinguished Research Professor, 1992–1993, and Professor of Mathematics (Retired)

Tam, Christopher K. W., PhD, California Institute of Technology; Distinguished Professor, 2000–2001, Professor of Mathematics and Mechanical Engineering, and

Research Associate, Geophysical Fluid Dynamics Institute, Distinguished Research Professor, 1990–1991

Taylor, J. Herbert, PhD, Virginia; Distinguished Professor 1983–1984, Professor of Biological Sciences, and Program Director, Institute of Molecular Biophysics (Deceased)

Travis, Joseph, PhD, Duke; Distinguished Professor 1996–1997; Professor of Biological Science

Tschinkel, Walter R., PhD, California at Berkeley; Distinguished Professor 2007–2008, Distinguished Research Professor 2002-2003 and Margaret Y. Menzel Professor of Biological Science 1999

Wagner, Richard K., PhD, Yale; Distinguished Professor 2009–2010, Alfred Binet Professor of Psychology 1999

Walborsky, Harry M., PhD, Ohio State; Distinguished Professor 1980–1981, Professor of Chemistry (Deceased)

Watts, Betty Monaghan, PhD, Washington, St. Louis; Distinguished Professor 1965–1966, Professor of Food and Nutrition (Retired)

Zollar, Jawole Willa Jo, MFA, Florida State; Distinguished Professor 2011-2012, Professor of Dance

National Academy Of Sciences, Florida State University Members

Beidler, Lloyd, PhD, Johns Hopkins; Distinguished Professor 1971–1972, Professor of Biological Science (Deceased)

Caspar, Donald L., PhD, Yale; Professor of Biological Science (Retired)

Dirac, Paul, PhD. St Johns College, Cambridge, Professor of Physics (Deceased)

Fisk, Zachary, PhD, California at San Diego, Paul A.M. Dirac Professor of Physics, 1999 (Resigned)

Gor'Kov, Lev P., Dr.Sc., Ioffe Physical Technical Institute; Leningrad; Professor of Physics, and Program Director, National High Magnetic Field Laboratory

Greene, Laura, PhD, Cornell University; Professor of Physics, National High Magnetic Field Laboratory

Howard, Louis, PhD, Princeton; McKenzie Professor 1986, Professor of Mathematics (Resigned)

Kasha, Michael, PhD, California at Berkeley; Distinguished Professor 1962–1963, Professor of Chemistry/Institute of Molecular Biophysics (Retired)

Schrieffer, John R., PhD, Illinois; Nobel Laureate in Physics, 1972; Professor of Physics, National High Magnetic Field Laboratory (Retired)

Stern, Melvin E., PhD, Massachusetts Institute of Technology; Distinguished Research Professor, 1995–1996, V.W. Ekman Professor of Oceanography, 1999 (Deceased)

Taylor, J. Herbert, PhD, Robert O. Lawton Distinguished Professor 1983–1984, Service Professor of Biological Science (Deceased)

Lerner, Abba Ptachya, PhD, London School of Economics; Professor of Economics (Deceased)

Kroto, Harold W PhD, University of Sheffield; Francis Eppes Professor of Chemistry, Nobel Laureate in Chemistry, 1996 (Deceased)

National Academy Of Engineering, Florida State University Members

Larbalestier, David C., PhD, Imperial College London; Francis Eppes Professor of Superconducting Materials

Lipo, Thomas, PhD, University of Wisconsin-Madison

Ostrach, Simon, PhD, Brown; Distinguished Professor of Engineering (Resigned)

National Academy of Medicine, Florida State University Members

Quandagno, Jill, PhD, Kansas; Distinguished Teaching Professor, 2010-2011, Mildred and Claude Pepper Eminent Scholar in Social Gerontology, 1987, and Professor of Sociology

Anderson, Norman, PhD, University of North Carolina, Greensboro, Research Professor of Social Work and Nursing

Institute Of Medicine, Florida State University Members

Anderson, Norman, PhD, University of North Carolina, Greensboro, Research Professor of Social Work and Nursing

Quandagno, Jill, PhD, Kansas; Distinguished Teaching Professor, 2010-2011, Mildred and Claude Pepper Eminent Scholar in Social Gerontology, 1987, and Professor of Sociology

National Academy of Public Administration

Berry, Frances, PhD, University of Minnesota; Frank Sherwood Professor of Public Administration, 2006

Feiock, Richard, PhD, University of Kansas; Augustus B. Turnbull Professor of Public Administration; Jerry Collins Eminent Scholar Endowed Chair, 2014

Weissert, Carol, PhD, University of North Carolina at Chapel Hill; LeRoy Collins Eminent Scholar of Political Science, 2012

Bowman, James, PhD, University of Nebraska, Lincoln, Professor of Public Administration, 2017

Yang, Kaifeng, PhD, Rutgers University, Professor of Public Administration, 2012

Foreign Academies, Florida State University Members

Boyd, Monica, PhD, Duke; Mildred and Claude Pepper Distinguished Professor of Sociology, and Royal Society of Canada

O'Brien, James J., PhD, Texas A&M; Professor of Meteorology and Oceanography, Robert O. Lawton Distinguished Professor, 1999–2000, Distinguished Research Professor, 1990–1991, and Russian Academy of Natural Science

Rikvold, Per Arne, PhD, Temple; James Gust Skofronick Professor of Physics, 2003, Professor of Physics and Scholar/Scientist, School of Computational and Information Technology, and Norwegian Academy of Science and Letters, 2004

Sheline, Raymond K., PhD, California at Berkeley; Service Professor of Chemistry and Physics, Robert O. Lawton Distinguished Professor 1966–1967, and Royal Danish Academy of Science and Letters (Retired)

Nobel Laureates

Bloch, Konrad E., PhD, Columbia, Eminent Scholar in Human Sciences, Nobel Laureate in Medicine, 1964 (Deceased)

Buchanan, James, PhD, Chicago, Professor of Economics, Nobel Laureate in Economic Science, 1986 (Deceased)

Dirac, Paul A.M., PhD, St. Johns College, Cambridge, Professor of Physics, Nobel Laureate in Physics, 1933 (Deceased)

Kroto, Harold W., PhD, University of Sheffield; Francis Eppes Professor of Chemistry, Nobel Laureate in Chemistry, 1996 (Deceased)

Mulliken, Robert S., PhD, Chicago, Professor of Chemistry, Nobel Laureate in Chemistry, 1966 (Deceased)

Schrieffer, J. Robert, PhD, Illinois, Professor of Physics, Nobel Laureate in Physics, 1972 (Retired)