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UNIVERSITY CALENDAR

Opening and Closing Dates

	2003	2004	2005
Fall	August 25 – December 12	August 23 – December 10	August 29 – December 16
Homecoming	November 15	TBA	TBA
	2004	2005	2006
Spring	January 7 – April 30	January 5 – April 29	January 9 – April 28
Spring Break	March 8 – 12	March 7 – 11	March 6 – 10
	2004	2005	2006
Summer	May 10 – August 6	May 9 – August 5	May 9 – August 4
13 Week	May 10 – June 18	May 9 – June 17	May 9 – June 16
6 Week-1	June 28 – August 6	June 27 – August 5	June 26 – August 4
6 Week-2	June 21 – August 13	June 20 – August 12	June 19 – August 11
8 Week-1	N/A	N/A	June 26 – August 18
8 Week-2	May 10 – July 2	May 9 – July 1	May 9 – June 30
8 Week LAW			

Legal Holidays (no classes)

	2003	2004	2005
New Year's Day	Wed., January 1	Thurs., January 1	Fri., Dec. 31, 2004 (Observed)
Martin Luther King, Jr. Day	Mon., January 20	Mon., January 19	Mon., January 17
Memorial Day	Mon., May 26	Mon., May 31	Mon., May 30
Independence Day	Fri., July 4	Mon., July 5 (Observed)	Mon., July 4
Labor Day	Mon., September 1	Mon., September 6	Mon., September 5
Veteran's Day	Tues., November 11	Thurs., November 11	Fri., November 11
Thanksgiving Day	Thurs., November 27	Thurs., November 25	Thurs., November 24
Friday After Thanksgiving	Fri., November 28	Fri., November 26	Fri., November 25
Christmas Day	Thurs., December 25	Fri., December 24 (Observed)	Mon., Dec. 26 (Observed)

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

Admission/Readmission Dates (2003 – 2004)

	Fall 2003	Spring 2004	Summer 2004
United States Undergraduate			
Freshman	March 3, 2003	November 3, 2003	March 1, 2004
Transfer	July 1, 2003	November 3, 2003	March 1, 2004
United States Graduate*	July 1, 2003	November 3, 2003	March 1, 2004
International			
Freshman	March 3, 2003	November 3, 2003	March 1, 2004
Transfer	May 2, 2003	September 1, 2003	February 1, 2004
Graduate*	May 2, 2003	September 1, 2003	February 1, 2004
Readmission			
Undergraduate	July 1, 2003	November 3, 2003	March 1, 2004
Graduate*	July 1, 2003	November 3, 2003	March 1, 2004
Special Student			
Undergraduate	July 1, 2003	November 3, 2003	March 1, 2004
Graduate*	July 1, 2003	November 3, 2003	March 1, 2004

***Note:** many graduate programs have earlier deadlines than the University-wide published dates. Contact the program you wish to apply to for the applicable admission deadline. Programs which use the University-wide deadline may have earlier deadlines for consideration for financial awards.

FALL 2003 ACADEMIC CALENDAR

Note: dates and times listed below are subject to change. Please refer to http://registrar.fsu.edu/dir_class/fall/acad_cal.htm for the most up-to-date information.

Mar. 18–April 25, 2003	Registration for continuing and readmitted students:	Sept. 5, 2003	Last day to Register for CLAST exam , (850) 644-3181. Last day to file for Fall 2003 Graduation at the Office of the University Registrar.
Mar. 28–Aug. 22, 2003	New Student Orientation and Advising. Check with Orientation. Registration for First time at FSU degree-seeking students (Undergraduate)	Sept. 8–12, 2003	New Transfer Student Follow-up Session. First term transfers should make an individual follow-up appointment with their advisor to review schedules.
July 1–Aug. 8, 2003	8 a.m. – midnight. See “Registration Windows.”	Sept. 19, 2003	End of Fourth Week of Classes. Last day to reduce course load without permission of academic dean. <i>Dean’s permission required to drop below twelve (12) semester hours.</i> Last day to drop a course without receiving a grade. Last day to withdraw without receiving a grade. Last day to submit form requesting S/U grading or to change S/U option back to regular grade.
July 1, 2003	Last day community college students can apply for Fall 2003 Cooperative Program Registration.	Oct. 1, 2003	<i>Spring 2004 Registration Guide</i> available. Spring 2004 course listings available on CourseLookup System.
Aug. 5–8, 2003	Special Student Registration. 8 a.m. – midnight	Oct. 4, 2003	CLAST exam given.
Aug. 11–Sept. 4, 2003	Fee Payment at A1500 University Center. For account status and fee payments visit http://www.fees.fsu.edu . 8:30 a.m. – 4:30 p.m. each day; open until 6:00 p.m. on August 29 and Sept. 4. Annual student parking permits are issued at A1500 University Center and other locations as posted.	Oct. 6–24, 2003	Spring 2004 Academic Advising for all currently enrolled and readmitted degree-seeking students.
Aug. 1–Sept. 5, 2003	Application for Graduation Fall 2003.	Oct. 10, 2003	Installment Contract Balance Due. No exceptions.
Aug. 16, 2003	Residence Halls open at noon.	Oct. 14, 2003	Registration for Spring 2004 begins.
Aug. 22, 2003	Registration for First time FSU degree-seeking students (Graduate): 8 a.m. – midnight. Last day to file for change in residency status.	Oct. 17, 2003	Last day to file to repeat a course under the Forgiveness Policy or to cancel such notice. No exceptions.
Aug. 23–28, 2003	Florida National Guard Registration (for those using National Guard waivers.)	Nov. 10, 2003	Official Thesis/Dissertation manuscript approval deadline for Fall semester, 408 Westcott.
Aug. 23–28, 2003	Drop/Add , (Includes Law School) 8 a.m. – midnight, Drop/Add ends at midnight, August 28, 2003.	Nov. 11, 2003	Veteran’s Day Holiday. No Classes.
Aug. 25, 2003	Classes Begin. CLAST Registration Begins, 644-3181.	Nov. 11–13, 2003	Loan exit interviews must be completed by going to the “Money Matters” section at http://www.studentsfirst.fsu.edu .
Aug. 25–26, 2003	Late Registration. (\$100.00 late registration fee.)	Nov. 14, 2003	Homecoming: No classes after 1:10 p.m.
Aug. 25–28, 2003	FAMU—FSU Co-op Program Registration at the Office of the Registrar: 8 a.m. to 5 p.m.	Nov. 17, 2003	Official Thesis/Dissertation copies due to manuscript clearance advisor for Fall semester, 408 Westcott.
Aug. 28, 2003	Last day to Drop/Add and have fees adjusted. Students are liable for all fees for courses still on their schedules at 12:00 midnight. Last day to add a course without academic dean’s permission.	Nov. 21, 2003	Last day to officially withdraw from school Financial Aid Deferments Expire. Full tuition payment must be made by the student to avoid a late payment. Last day community college students can apply for Spring 2003 Cooperative Program Registration. Veterans’ Deferments Expire.
Aug. 29, 2003	Fifth Day of Classes. Last day to cancel enrollment and have fees removed. Last day to submit waivers, billings or Veterans’ deferment. Registration for state employees (non-FSU employees) using State Employee Fee Waivers, 8:00 a.m.–6:00 p.m.	Nov. 27–28, 2003	Thanksgiving Day Holiday. No classes.
Sept. 1, 2003	Labor Day. No Classes.	Dec. 3, 2003	Last day to turn in ServScript verification forms.
Sept. 1, 2003	All Financial Aid students must check their financial aid status at http://www.fees.fsu.edu or call their administrative voice message at (850) 644-0539.	Dec. 5, 2003	Last Day of Classes. Last day to reduce course load, if permitted, by the academic dean. Last day to apply for A. A. Certificate at the Office of Undergraduate Studies, A3400 University Center.
Sept. 3–4, 2003	Financial Aid distribution for exceptions. Students resolve holds on financial aid funds. A1500 University Center, 8:30 a.m.–4:30 p.m.	Dec. 8–12, 2003	Final Examination Week.
Sept. 4, 2003	Last day to pay or defer fees without a \$100 late fee.	Dec. 12, 2003	Semester Ends.
		Dec. 13, 2003	Residence Halls close at noon. Diplomas dated this date. Commencement: Civic Center, 9 a.m.
		Dec. 15–16, 2003	Registrar’s Office closed for grade processing.



UNIVERSITY NOTICES

Equal Employment Opportunity and Non-discrimination Statement

The Florida State University is committed to a policy of non-discrimination and prohibits unlawful employment discrimination based on race, creed, color, sex, religion, national origin, age, disability, veteran's or marital status. Unlawful discrimination is contrary to the University's standards of civility and collegiality, which recognize the dignity and worth of each person. Unlawful discrimination is a violation of federal and state laws, and University rules and policies. Unlawful discrimination by faculty, staff, students, visitors and contractors is not condoned in the administration of university programs and services.

In pursuing its mission of excellence as a comprehensive, graduate-research university with a liberal arts base, it is the policy of the University to create and maintain a positive work and educational environment conducive to the betterment of the University and, thus, society at large, in the interest of public service and international education. The Florida State University realizes that there is advantage in incorporating diversity from all realms: cultural, positional, social, among others. Further, it is the aim of the University in all lawful ways to carry its stance by:

- Removing barriers that restrict people from realizing their potential;
- Implementing policies, procedures, and programs that ensure opportunities are available equitably to all;
- Building a multidimensional, diversified workforce reflective of the community;
- Fostering leadership and direction that guarantees an accountable, highly participatory, effective institution of higher learning at all levels; and
- Communicating the same to all in various formats as applicable.

The Office of the Dean of the Faculties within the Office of Provost/Vice President, Academic Affairs, serves the University in helping to create an ideal educational environment that encompasses fairness, respect and trust, that is free from mistreatment, discrimination and harassment—through a flexible, yet, balanced approach as it strives to achieve the University's strategic options. For more information, please contact Dr. Anne E. Rowe, Dean of the Faculties at (850) 644-1083, or via e-mail at arowe@mailersfsu.edu.

Human Resources/Office of Diversity Enhancement serves the University by facilitating or otherwise ensuring compliance of its education programs and employment activities with state and federal equal opportunity, equity and affirmative action regulations through collaboration with all

appropriate campus offices. For more information, please contact Cheryl Gonzalez, Assistant Director/Human Resources and Employee Ombuds at (850) 644-8082, or via e-mail at cgonzalez@admin.fsu.edu.

Persons with Disabilities

The Florida State University adheres to Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 (ADA) in prohibiting discrimination against any qualified person 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, *Lower Level, Kellum Hall, Suite 08*. The Florida State University's ADA Coordinator may be contacted as follows: Mr. Robert Pullen, Human Resources/Office of Diversity Enhancement, *University Center, Bldg. A, Suite 6200*.

The Transition Plan, related updates, and self-evaluation reports are available for review in Human Resources/Office of Diversity Enhancement. Upon request, this publication also is available in alternative formats through Human Resources/Office of Diversity Enhancement, (850) 644-8142, via e-mail at rpullen@admin.fsu.edu or the Student Disability Resource Center, (850) 644-9566, e-mail: lemiller@admin.fsu.edu.

HIV/AIDS Policy

Students, employees, and applicants for admission or employment at The Florida State University who have or who may become infected with the HIV virus 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.

The Florida State University Committee on HIV/AIDS is responsible for monitoring developments with regard to HIV/AIDS, acting upon and administering the policies of the State of Florida, 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. In addition, The Florida State University Committee on HIV/AIDS meets as needed to consider special problems related to HIV/AIDS which require University action.

The University will be guided in its implementation of this policy by current authoritative medical information, applicable federal and state law, the State of Florida, 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.

The Florida State University has designated HIV/AIDS counselors who are available to the University community. These counselors are: Celeste Paquette, M.D., Medical Director Thagard Student Health Center, (850) 644-2026; and James Hennessey, Ph.D. Student Counseling, 644-2003. Anonymous HIV testing is available for students and staff at Thagard Student Health Center. Any interested individuals should call 644-0579 to schedule an appointment.

Sexual Harassment Policy

1. Policy Statement. Sexual harassment is a form of discrimination based on a person's gender. Sexual harassment is contrary to the University's values and moral standards, which recognize the dignity and worth of each person, as well as a violation of federal and state laws and University rules and policies. Sexual harassment cannot and will not be tolerated at The Florida State University, whether by faculty, students, or staff, or by others while on property owned by or under the control of the University.

2. Office of Inspector General. The Office of Inspector General (OIG) is charged with receiving and investigating sexual harassment complaints, as set forth in this policy, and shall maintain the records pertaining thereto. Within the OIG, the Coordinator of Sexual Harassment Resolutions has primary responsibility for leading these investigations.

3. Definition. Sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature directed at an employee or student by another when:

a. Submission to such conduct is made either explicitly or implicitly a term or condition of employment, academic status, receipt of University services, participation in University activities and programs, or affects the measure of a student's academic performance; or,

b. Submission to or rejection of such conduct is used as the basis for a decision affecting employment, academic status, receipt of services, participation in University activities and programs, or the measure of a student's academic performance; or,

c. Such conduct has the purpose or effect of unreasonably interfering with employment opportunities, work or academic performance or creating an intimidating, hostile, or offensive work or educational environment.

4. Examples of Sexual Harassment. Incidents of sexual harassment may involve persons of different or the same gender. They may involve persons having equal or unequal power, authority or influence. Though romantic and sexual relationships between persons of unequal power do not necessarily constitute sexual harassment, there is an inherent conflict of interest between making sexual overtures and exercising supervisory, educational, or other institutional authority. Decisions affecting an employee's job responsibilities, promotion, pay, benefits, or other terms or conditions of employment, or a student's grades, academic progress, evaluation, student status, recommendations, references, referrals, and opportunities for further study, employment or career advancement, must be made solely on the basis of merit.

Examples of sexual harassment include, but are not limited to, the following, when they occur within the circumstances described in Section (3) above:

- a. Use of gender-based verbal or written language, including electronic communications, offensive or degrading to a person of that gender, whether or not the content is sexual;
- b. Inappropriate display of gender-based pictorial images offensive or degrading to a person of that gender, including but not limited to sexual posters, photographs, cartoons, drawings, or other displays of sexually suggestive objects or pictures;
- c. Use of inappropriate gestures or body language of a sexual nature, including leering or staring at another;
- d. Unwelcome requests or demands for sexual favors or unwelcome sexual advances;
- e. Inappropriate nonconsensual touching of another's body, including but not limited to kissing, pinching, groping, fondling, or blocking normal movement; or
- f. Sexual battery. (**Note:** some acts of sexual harassment may also constitute violations of criminal law, e.g., sexual battery, indecent exposure, sexual abuse, etc. In such instances, the Florida State University Police Department is to be notified immediately and will provide assistance to the victim and initiate an investigation of the crime. For additional information, please refer to the University's Sexual Battery Policy.)

5. Disciplinary and Other Actions. Sexual harassment is prohibited by The Florida State University. The University will take appropriate action against any person found to be in violation of this policy. (**Note:** a person who has sexually harassed another or retaliated against another may also be subject to civil or criminal liability under state or federal law.)

a. **Disciplinary Actions.** Any employee who has sexually harassed another employee or a student, retaliated against such person for bringing a complaint of sexual harassment, or otherwise violated this policy shall be guilty of misconduct and subject to disciplinary action up to and including dismissal, in accordance with applicable law, rules, policies, and/or collective bargaining agreements. In addition any student, who has sexually harassed another student or an employee, retaliated against such person for bringing a complaint of sexual harassment, or otherwise violated this policy shall be subject to disciplinary action up to and including expulsion, pursuant to the Student Code of Conduct. The term "employee" includes all persons employed by the University including faculty and graduate teaching assistants.

b. **Other Actions.** The University will take such corrective action against any non-students or non-employees found to have violated this policy, as may be appropriate under the circumstances.

6. Retaliation. Retaliation against one who in good faith brings a complaint of sexual harassment or who in good faith participates in the investigation of a sexual harassment complaint is prohibited and shall be a violation of this policy and shall constitute misconduct subject to disciplinary or other action as described in Section (5) above.

7. Filing of False Sexual Harassment Complaint. Knowingly filing a false sexual harassment complaint is prohibited and shall be a violation of this policy and shall constitute misconduct subject to disciplinary action as described in Section (5) above. A complaint that is investigated and deemed unsubstantiated is not necessarily a false complaint.

8. Reporting Required. Any student or employee who has witnessed what is perceived to be a violation of this policy should promptly report that conduct to the OIG, who then will proceed as appropriate. Any supervisor¹ who has witnessed or becomes aware of the alleged occurrence of sexual harassment by, or who receives a complaint of sexual harassment involving a person within that supervisor's purview is required to take prompt corrective action as appropriate, and to report the matter, if possible, within two work days to the OIG. Failure of the supervisor to take appropriate corrective action or to report the incident shall be a violation of this policy and shall constitute misconduct subject to disciplinary action as described in Section (5) above.

¹ For the purposes of this policy, the term "supervisor" shall be deemed to include vice presidents, deans, directors, department chairs, unit heads, supervisors, principal investigators, etc.; faculty when acting in a supervisory capacity or within the faculty-student role; and graduate research assistants, teaching assistants, lab technicians, residence hall coordinators, etc.

9. Complaint Procedure.

a. **Filing of Complaint.** Any student or employee who believes that he or she is a victim of sexual harassment in violation of this policy is encouraged to promptly notify the alleged perpetrator (the "respondent") verbally or in writing that his or her conduct is unwelcome. Such action may cause the unwelcome conduct to cease as well as help to maintain an environment free from sexual harassment. Assistance and support is available from the Office of the Dean of the Faculties (for faculty), the Office of the Dean of Students (for students), or the Department of Human Resources (for non-faculty employees). Regardless of having given notice to the respondent, the student or employee (the "complainant") may initiate a complaint under this policy by promptly bringing the matter to the attention, preferably in writing by completing the complaint form, of any of the following:

- The Office of Inspector General;
- The Office of the Dean of the Faculties;
- The Office of the Dean of Students;
- The Department of Human Resources;
- A student's school or college dean; or,
- An employee's immediate or next immediate supervisor.

All complaints should be filed in a timely manner. Complaints filed for acts that occurred more than one year from the filing date of the complaint will generally not be investigated unless appropriate in the judgment of the OIG.

b. **Preparing a Complaint.** The complaint should provide the following information to facilitate a prompt and thorough investigation:

- The names, addresses, telephone numbers, administrative unit, and position or status of the complainant and the respondent, if known;
- Specific acts alleged, including dates, times, and locations;
- Names, addresses, and phone numbers of potential witnesses;
- The effect the alleged acts have had on the complainant;
- Actions the complainant may have taken to attempt to stop the harassment;
- Complainant's suggestion of proposed action to address or resolve the harassment; and
- Other information the complainant believes is relevant.

c. **Transmitting a Complaint to the OIG.** The complaint shall immediately be forwarded to the OIG. If the complaint is verbal, the person receiving the complaint shall make a written summary thereof on the complaint form and request the complainant to sign it.

d. Reviewing a Complaint. The OIG will make an initial determination whether the alleged perpetrator is a student or employee. If the alleged perpetrator is identified as one who is not a student or employee, then the OIG will refer the matter to the Office of the General Counsel for appropriate action. If the OIG determines that the alleged perpetrator is a student or employee, the OIG will review the complaint to determine whether the acts complained of, as stated by the complainant, constitute a violation of this policy, and if not, the complainant will be so informed. If the OIG determines the alleged acts may constitute a violation of this policy, investigation will proceed as set forth in Section (10) below, unless the matter is satisfactorily resolved as in the following paragraph (e).

e. Notifying the Respondent and Supervisor; Informally Resolving a Complaint; Withdrawing a Complaint. The OIG will notify the respondent and his or her appropriate supervisor of the allegations contained in the complaint. In an effort to informally resolve the complaint, the OIG will elicit from the complainant, proposed actions the complainant believes are necessary to address or resolve the alleged harassment. The OIG will discuss these proposed actions with the respondent and with appropriate levels of management. The respective parties will also have the opportunity to propose other means of resolution. Thus, if the matter can be resolved informally, or if the complainant chooses to withdraw the complaint, the complainant will sign a statement outlining the informal resolution and releasing the University from taking any further action. If the matter is not resolved at this stage, the complaint will be investigated as set forth in Section (10) below.

10. Investigation. The following procedures will govern all investigations of complaints alleging violations of this policy:

a. The OIG will thoroughly investigate complaints alleging violations of this policy with the assistance, as needed, of the following: the Office of the Dean of the Faculties, the Department of Human Resources, and/or the respondent's supervisor(s), except in cases where the respondent is a student. If the respondent is a student, the OIG will forward a copy of the complaint and any associated materials to the Office of the Dean of Students, which will, if appropriate, adjudicate the matter under the Code of Student Conduct. The Dean of Students shall notify the OIG of the outcome.

b. The investigation should include interviewing the complainant and witnesses suggested by the complainant who may have knowledge of the offending behavior. Employees and students shall fully cooperate in the investigation.

c. The respondent will be given an opportunity to respond to the complaint verbally and in writing and may suggest additional witnesses.

d. The investigation should also include interviewing such other witnesses as are deemed appropriate under the circumstances.

e. The investigation should include a review of any files and records of previous sexual harassment complaints against the respondent and any other documents deemed relevant.

f. All witnesses who provide relevant information should submit a written, signed statement attesting to their knowledge of the subject circumstances.

g. Confidentiality of the investigation will be maintained to the extent allowed by law.

11. Report of OIG. The OIG will prepare a report setting forth its findings, and a determination concerning violation of this policy. The report should be completed within 120 days following the filing of the complaint, where feasible, and will be submitted to the appropriate vice president of the respondent's unit or department.

12. Subsequent Action. The vice president will make a determination, upon review of the OIG's report, consultation with the Dean of the Faculties or the Director of Human Resources, and consideration of any other relevant information, including aggravating or mitigating circumstances, whether disciplinary action is warranted under the circumstances. If the vice president determines that disciplinary action should be initiated, then, consistent with due process requirements, the respondent will be notified in accordance with applicable Florida Board of Education and University rules and policies and collective bargaining agreements, and appropriate disciplinary procedures as provided for therein will be followed. Regardless of whether formal disciplinary action is initiated, the University may take such informal corrective action as may be appropriate under the circumstances. The vice president will notify the OIG of the outcome. The OIG will notify the complainant of the results of the investigation and subsequent disciplinary or other corrective action taken, if any, to the extent allowed by law. The OIG will notify the respondent of the results of the investigation when no policy violation is found and no further action planned.

13. Distribution of Policy. Copies of this policy are available to all current and future employees and students at The Florida State University in hard copy (policy brochures, student handbooks, the *General Bulletin*, etc.), electronic format (<http://www.inspectorgeneral.fsu.edu/sh/policy/>), and will be made available in alternative format upon request. Any person involved in the process under this policy needing accommodations for a disability should notify the OIG.

14. Applicability. This policy supercedes any and all prior University policies regarding complaints of alleged acts of sexual harassment.

15. Effective Date. The effective date of this policy is July 1, 1998 as amended December 31, 2002.

Mission Statement (Approved by BOR, July 28, 1988; revised, May 21, 1999; updated 2002)

Mission. The Florida State University is a comprehensive, graduate-research university with a liberal arts base. It offers undergraduate, graduate, advanced graduate, and professional programs of study; conducts extensive research, and provides service to the public in accord with its statewide mission. The University's primary role is to serve as a center for advanced graduate and professional studies while emphasizing research and providing excellence in undergraduate programs.

In accordance with the University's mission, faculty members have been selected for their commitment to excellence in teaching, their ability in research and creative activity, and their interest in public service. Among the faculty are recipients of many national and international honors, who have included four Nobel laureates and ten members of the National Academy of Sciences.

Given its history, location, and accomplishments, The Florida State University does not expect major changes in its mission during the next decade. Rather, it sees further refinement of that mission with concentration on its strong liberal arts base and on quality in its teaching, research, and public service. The University has established its reputation upon areas of strength by building excellence in the four components of the Science Development Program—physics, chemistry, psychobiology (now neuroscience), and statistics—together with the physical, biological, earth, and mathematical sciences closely related to them. Excellence in these and related areas, particularly materials science, resulted in relocation of the National High Magnetic Field Laboratory to Florida State. Enhancement of the fine and performing arts began with the establishment of the Center for Music Research in the already prestigious School of Music and includes prominent programs in Theatre, Dance, and the Visual Arts. Within the areas of humanities, the Departments of English, Philosophy, Religion, and Humanities are particularly distinguished. Special emphasis in economic policy and government has been directed to the College of Social Sciences' Departments of Economics, Geography, Political Science, Urban and Regional Planning, and School of Public Administration and Policy and to its DeVoe L. Moore and Family Center for Economic Policy and Government and the public policy components of the School of Criminology, the School of Social Work, and the College of Education.

The University's location in the state's capital city provides great opportunity for service and interaction among governmental agencies and the social science and professional schools, especially the colleges of Business and Law and the Pepper Institute on Aging and Public Policy. Special resources, such as the School of Computational Science and Information Technology and the Florida State Conference Center, enhance its ability to deliver such service. The University is

strongly committed to its mission in international education. It provides study-abroad opportunities for its students and faculty through the Florence and London Study Centers, which it operates for the State University System, and through programs in Barbados, Costa Rica, the Republic of Panama, Switzerland, Russia, Cetamura, Italy, Oxford, England, and in Central and Eastern Europe. The University co-sponsors Florida bi-national linkage institutes in Costa Rica and France.

As a comprehensive residential state university, The Florida State University attracts students from every county in Florida, every state in the nation, and 139 foreign countries. The University is committed to high admission standards that ensure quality in its student body, which currently includes 577 National Merit, National Achievement and Hispanic scholars, as well as students with superior creative talents. It also provides alternative admission and highly successful retention programs for special student populations. Most students pursue a full-time course of study in normal progression from high school or undergraduate institutions. Graduate students, who comprise 17.8 percent of the student body, are enrolled in over 204 graduate degree programs of which 72, covering 133 fields, are doctoral. The median age of all students is 23.7 and approximately 12.5 percent, mostly graduate students, are over 31 years old.

A Summons to Responsible Freedom

Values and Moral Standards at The Florida State University

The moral norm which guides conduct and informs policy at The 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.

As the Florida public university most deeply rooted in the liberal arts tradition, The Florida State University not only focuses on intellectual development, but as a community of 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.

The 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.

The Florida State University is committed to non-discrimination in matters of race, creed, color, sex, national origin, age, and disability. 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 which conform to both the spirit and the letter of all laws against discrimination.

A responsible student recognizes that freedom means the acknowledgment 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 which 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. Sexism, sexual harassment, and sexual coercion of any sort are wrong and constitute a violation of fundamental moral requirements and state law. Minimally responsible behavior requires that no one take sexual advantage of another.

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 cultural, ethnic, and racial diversity of the University community provides an opportunity for learning about those different from oneself. The University expects each individual to make a special effort to ensure that all are treated with dignity and respect and accorded the full opportunities of the University. Racism, whether in assumptions, attitudes, acts, or policies, is incompatible with the concept of responsible freedom as espoused by The Florida State University.

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

Policy for the Use of Photographs and Videos in University Publications

The Florida State University randomly and routinely photographs and makes videos on the main campus, branch campi, 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 websites, and other University information publications. For further information contact Media Relations at 644-4030.

Integrity in Research and Creative Activity

It is the policy of The 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*.

Notification to All Applicants for Admission and Students Attending The Florida State University

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, offer-

ings and requirements which 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.

Garnet E-Mail Accounts for All Students at The Florida State University

The official method of communication at The Florida State University is the ACNS Garnet e-mail account. In order to stay informed and aware, students are required to set up and maintain their account, and check it three times per week. In order to set up an e-mail account, students first must acquire an FSUCard. For more information concerning FSUCards, contact the FSUCard center at (850) 644-7777. Students may choose to forward their Garnet account to another e-mail account; however, they still will be responsible for all information distributed by the University to their Garnet account. For more information (including how to set up an account,) log on to <http://cars.acns.fsu.edu> or call the Office of Technology Integration Help Desk at (850) 644-8502, extension 1.



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

Standards of Conduct

State of Florida statutes declare that it is unlawful for any person under 21 years of age to possess or consume 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.

Legal Sanctions

Alcohol Offenses

Common Alcohol Offenses	Typical Penalty	Maximum Penalty
(Leon County)	First Offense	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.

Illicit Drugs Offenses

The penalty for possession (second-degree misdemeanor) is 60 days jail and \$500 fine. Penalties for trafficking (first-degree felony) range up to 30 years imprisonment and fines of \$500,000.

Risks Associated with the Use of Illicit Drugs and the Abuse of Alcohol

Alcohol consumption causes a number of marked changes in behavior. It may increase aggressiveness, lower inhibitions, cloud judgement, reduce resistance, and hamper the ability to make decisions. The effects of alcohol are related to dose, rate of intake, body size and percentage of body fluid, expectations, social environment, physical conditions (disease or more common hormonal cycles can be factors), enzyme differences, and concentration of alcohol in a drink. 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 slows reaction time, reduces muscle coordination and impairs eyesight, contributing to deficits in performance, judgement, memory, and motor skills. Even low doses significantly impair the judgement and coordination required to drive a car safely, increasing the likelihood that the driver will be involved in a crash. Moderate doses of alcohol may increase the odds of a variety of aggressive acts (violent crimes), including murder, rape, assault, vandalism, spouse and child abuse, and drunk driving. High doses of alcohol often cause marked impairment in higher mental functioning, severely altering a person's ability to learn and remember information, leading to black-

outs and a general suspension of cognitive abilities. Heavy use may lead to various types of traumatic injury, chronic depression, suicide, fetal alcohol syndrome, respiratory failure, alcohol poisoning, and death.

Prolonged, heavy consumption of alcohol can result in long-term medical problems, including high blood pressure, increased risk of heart attack, pancreatitis, various cancers, cirrhosis of the liver, infectious diseases, mental disorders, and impairment of the central nervous system, all of which may lead to early death. Consistent use of alcohol can lead to tolerance, which is an indication of the body's adjustment to regular drinking, and is a warning sign of alcohol abuse. High tolerance may be an inherited function, which many researchers think is a sign of genetic predisposition to alcoholism. Sudden cessation of alcohol intake by alcoholics is likely to produce withdrawal symptoms, including severe anxiety, tremors, hallucinations, and convulsions, which can be life-threatening.

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 expose users to criminal elements, which may lead to involvement in further criminal activities.

Information on Alcohol and Drugs and Treatment Referral

Thagard Student Health Center's Health Enhancement Department, (850) 644-8871, provides educational workshops for any audience on request. It has an extensive reference library and refers students seeking assistance with alcohol and drug matters.

Additional resources include:

- The Tallahassee Telephone Counseling and Referral Service, 224-NEED.
- Narcotics Anonymous, 599-2876,
- Alcoholics Anonymous, 224-1818,
- The Florida State University Student Counseling Center, 644-2003, is available to students for counseling and support services.
- The Florida State University Marriage and Family Therapy Clinic (644-1588) provides limited treatment services.

Additional Information is available on the Internet at the following websites:

1. Children of Alcoholics Foundation at <http://www.coaf.org>.
2. National Association for Children of Alcoholics at <http://www.health.org/nacoa>.
3. Alcoholics Anonymous at <http://www.alcoholics-anonymous.org>.
4. Families and Friends of Alcoholics at <http://www.al-anon-alateen.org>.

University Disciplinary Sanctions for Alcohol/Drug Offenses

The disciplinary function at The Florida State University is an integral part of the educational mission of the University. Students in violation of state laws, city ordinances, or University policies will be reported to The Florida State University authorities for disciplinary action. Disciplinary processes are outlined in the *Florida State University Student Handbook* which gives the University authority to impose sanctions including suspension, dismissal, and expulsion. Parental notification under certain circumstances is integral to University protocol regarding alcohol use.

THE UNIVERSITY

University History

The Florida State University, one of the largest and oldest of the eleven institutions of higher learning in the State of Florida, Division of Colleges and Universities, 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 12 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 which 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, The Florida State University Army ROTC cadet corps is today one of only three in the nation au-

thorized 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, Licentiate 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 (BA) 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 which 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 co-educational status and name it The 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, 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 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 Panama Canal Branch was opened, and 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, The Florida State University has added to its academic organization and now comprises 17 colleges and schools. It has expanded from the original few acres and buildings to over 513 buildings on nearly 1,423.2 acres, including the downtown Tallahassee main campus of 463.4 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 Engi-

neering facility; the University Computing Center and Division of Research at Innovation Park; and the branch campus in Panama City, Florida. The Florida State University celebrated its 50th year as a university in 1997, with a student population of over 30,000, and recognition as a major graduate research institution with an established international reputation.

The fall 2002 enrollment totaled 36,683 students from all 50 states and 132 countries. The breakdown by class included 7,335 freshmen, 5,601 sophomores, 7,894 juniors, 7,910 seniors, 750 law students, 1,338 special students, and 5,855 graduate students. Of the student body, 44.0% are men, 56.0% women. The faculty totaled 2,043.

The Panama City Campus is located on beautiful North Bay, 100 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

The Florida State University is one of eleven units of the Division of Colleges and Universities (DCU) of the State Board of Education (SBOE). The State Board of Education, 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) coordinates the State University System. The SBOE and FBOG oversee the 13-member Boards of Trustees for each of Florida's public universities through the Chancellor of Colleges and Universities. The Florida State University 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. The Florida State University also offers degree programs in Panama City, Sarasota, and the Republic of Panama; instructional programs in London, Florence, and Valencia; and research, development, and/or service programs in Costa Rica, Croatia, and Italy.

The chief executive officer of The Florida State University is the President. He is assisted by the Provost (who is also the Vice President for Academic Affairs), the Dean of the Faculties and Deputy Provost, the Vice President for Finance and Administration, the Vice President for Student Affairs, the Vice President for Research, the Vice President for University Relations, the Director of University Communications, and the President of the Faculty Senate.

The Division of Academic Affairs is responsible for the operation of the academic program of the University. It includes the Office of the Dean of the Faculties and Deputy Provost, which is responsible for the administration of all faculty personnel matters and academic rules and regulations and facilitates the operation of the Faculty Governance System of the University; the Office of Graduate Studies, which is responsible for the

recruitment and advising of graduate students; 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 Relations 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. University Relations also coordinates programs to improve understanding and support of University academic programs and activities through its units, including governmental relations.

University Communications 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 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 The Florida State University at Panama City. Located 100 miles west of Tallahassee on beautiful North Bay, the Panama City campus provides opportunities for undergraduate and graduate study in 14 programs leading to the bachelor's degree, 18 programs leading to the master's degree and one program leading to the specialist's degree. To complement the local community college, the Panama City campus offers no courses at the freshman and sophomore levels. Applicants for admission must complete the first two years of college work elsewhere.

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. About 80 percent of the courses are taught by faculty who teach at both the Panama City campus and the main campus. This ensures a quality of instruction reflecting the standards and values that are predominant on the main campus.

Colleges and Schools

The academic organization of the University comprises 17 colleges and schools. One of these, the College of Engineering, is a joint program of the Florida Agricultural and Mechanical University (FAMU) and The Florida State University. The colleges and schools offer courses of study in 25 major disciplines. In addition to the associate in arts (AA) certificate, they offer 96 authorized baccalaureate degree programs covering 193 fields, 100 authorized master's degree programs covering 194 fields, 31 authorized advanced master's and specialist degree programs covering 35 fields, two authorized professional degree programs covering eight fields, and 72 authorized doctoral degree programs covering 135 fields. The following outlines the academic divisions:

College of Arts and Sciences

Departments: Aerospace Studies; Anthropology; Biological Science; Chemistry and Biochemistry; Classical Languages, Literature, and Civilization; Computer Science; English; Geological Sciences, History; Mathematics; Meteorology; Military Science; Modern Languages and Linguistics; Oceanography; Philosophy; Physics; Psychology; Religion; Statistics.

Interdisciplinary Programs: American and Florida Studies; Asian Studies; British Studies; Chemical Physics; Classics and Religion; Cognitive Science; Critical Theory; English and Business; Foreign Language and Business; Geophysical Fluid Dynamics; Humanities; Italian Studies; Latin American and Caribbean Studies; Molecular Biophysics; Neuroscience; Program in Chemical Physics; Psychobiology; Neuroscience Research; Russian and East European Studies; Secondary Science and/or Mathematics Teaching; Women's Studies.

College of Business

School: Dedman School of Hospitality.

Departments: Accounting; Finance; Management; Management Information Systems; Marketing; Risk Management/Insurance and Real Estate.

Interdisciplinary Programs: Business Administration and Law; Multinational Business.

College of Communication

Departments: Communication; Communication Disorders.

School of Criminology and Criminal Justice

College of Education

Departments: Educational Leadership and Policy Studies; Educational Psychology and Learning Systems; Elementary and Early Childhood Education; Middle and Secondary Education; Special Education; Sport Management, Recreation Management and Physical Education.

FAMU—FSU College of Engineering

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

College of Human Sciences

Departments: Family and Child Sciences; Nutrition, Food, and Exercise Sciences; Textiles and Consumer Sciences.

Interdivisional Programs: Marriage and Family; Independent Living for Persons with Disabilities.

School of Information Studies

College of Law

Interdisciplinary Programs: Law and Business Administration; Law and Economics; Law and International Affairs; Law and Public Administration; Law and Urban and Regional Planning.

College of Medicine

School of Motion Picture, Television, and Recording Arts

School of Music

Interdisciplinary Program: Music Research.

School of Nursing

College of Social Sciences

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; Center for Demography and Population Health; Health Services Administration and Policy; International Affairs; Pepper Institute on Aging and Public Policy; Marriage and Family; Economic Policy and Government; Russian and East European Studies; Program in Social Science; Urban and Regional Planning and Public Administration.

School of Social Work

School of Theatre

School of Visual Arts and Dance

Departments: Art; Art Education; Art History; Dance; Interior Design.

Interdisciplinary Program: Arts Administration.

Institutes and Research Centers

The work of the colleges and schools 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 State Board of Education's approved institutes and research centers:

Professional Development and Public Service

Center for Intensive English Studies
Center for Professional Development and Public Service

Learning Systems

Learning Systems Institute

Science and Public Affairs

Beaches and Shores Resource Center
Center for the Advancement of Human Rights
Center for Biomedical and Toxicological Research and Hazardous Waste Management
Center for Economic Forecasting and Analysis
Center for Prevention and Early Intervention Policy
Florida Center for Public Management
Florida Conflict Resolution Consortium
Florida Institute of Government
Florida Resources and Environmental Analysis Center
Florida State Climate Center
Institute for International Cooperative Environmental Research
Czech/American Joint Center for Environmental Research
Hungarian-American Joint Center for Environmental Research
Polish/American Joint Center for Environmental Research
Russian/American Joint Center for Environmental Research
Institute of Science and Public Affairs
The Florida Center for Tobacco Education

International Programs

Florida—Costa Rica Linkage Institute (FLORICA)
Florida—France Linkage Institute

College of Arts and Sciences

Antarctic Marine Geology Research Facility
Center for Materials Research and Technology
Center for Ocean-Atmospheric Prediction Studies
Cooperative Institute for Tropical Meteorology
FSU Sensory Research Institute
Geophysical Fluid Dynamics Institute
Institute for Cognitive Sciences
Institute for Fishery Resource Ecology
Institute for the Study of Emotion
Institute of Molecular Biophysics
Institute on Napoleon and the French Revolution
Institute on World War II and the Human Experience
Middle East Studies Center
Statistical Consulting Center
Terrestrial Waters Institute
Winthrop-King Institute for Contemporary French and Francophone Studies

College of Business

Carl DeSantis Center for Executive Management Education
Center for the Advancement of Procurement
Center for Banking and Financial Institutions
Center for Information Systems Research
Center for Insurance Research
Center for Personnel and Human Resource Management
International Center for Hospitality Research and Development
Jim Moran Institute for Global Entrepreneurship Marketing Institute
Real Estate Research Center
Small Business Institute

College of Communication

Florida Government Performance Survey Research Center
International Center for the Advancement of Political Communication
L.L. Schendel Speech and Hearing Clinic

College of Education

Center for Educational Research and Policy Studies
Center for the Study of Technology in Counseling and Career Development
Center for the Study of Values in College Student Development
Melvne Draheim Hardee Center for Women in Higher Education

College of Human Sciences

Center for Family Services (also under Institute of Science and Public Affairs)
Florida State University Family Institute
Center for Marriage and Family Therapy
Resource Materials Center

School of Information Studies

Information Use Management and Policy Institute

College of Law

Florida Dispute Resolution Center

College of Medicine

Center for Rural Health Research and Policy

Center of Excellence for Patient Safety

Center on Terrorism and Public Health

School of Motion Picture, Television and Recording Arts

Institute of Motion Picture, Television and Recording Arts

School of Music

Center for Music of the Americas

Center for Music Research

College of Social Sciences

Center for Civic and Nonprofit Leadership

Center for Demography and Population Health

Claude Pepper Center

DeVoe L. Moore Center for the Study of Critical Issues in Economic Policy and Government

Florida Public Affairs Center

Gus A. Stavros Center for the Advancement of Free Enterprise and Economic Education

LeRoy Collins Institute

Pepper Institute on Aging and Public Policy

School of Social Work

Center for Social Work Research and Practice

Institute for Family Violence Studies

Institute for Health and Human Services Research (also under Institute of Science and Public Affairs)

Traumatology Institute

Trinity Institute for the Addictions

Provost's Office

Institute for Academic Leadership

Research, Office of the Vice President for

FSU Center for Health Equity

Other Instructional Units

Reserve Officers Training Corps

The University includes among its offerings both Air Force and an Army Reserve Officer Training Corps (ROTC) programs; students of The Florida State University may apply for admission to the Navy ROTC Program offered through Florida Agricultural and Mechanical University. 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, and TCC. The classes are listed in this *General Bulletin* under "Aerospace Studies." For additional information, visit our website at <http://www.fsu.edu/~rotc>, 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 our website at <http://www.fsu.edu/~armyrotc/> or visit in person at 201 Harpe-Johnson Hall.

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 The 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; 4) the two-year Scholarship Program; and 5) the Tweedale Scholarship Program. Navy-Marine Corps College Program students are eligible to compete for available Chief of Naval Education and Training (CNET) scholarships anytime after one semester of participation in the program. Selection is based on academic achievement and military aptitude. Scholarships include full tuition, lab fees, and a textbook allowance of \$250.00 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, when selected for advanced standing in their junior or senior year, receive a \$350.00 and \$400.00 per month stipend, respectively.

The **Tweedale NROTC Scholarship Program** was established to provide NROTC scholarships to outstanding technical major college students with no prior affiliation with the NROTC program. To qualify for a Tweedale Scholarship, students must have completed at least one, but not more than four academic terms of college course work with a cumulative GPA that places the student above the peer mean (like major), or 3.00, whichever is higher. The student's transcript must reflect a grade of "C" or better in all course work attempted. The transcript must also show that the student has completed an academic term of college level math or science and has the ability to complete successfully all of the NROTC academic requirements.

The NROTC Unit is located in the Perry-Paige Building on the FAMU campus. For additional information, visit our website at <http://www.famunrotc.com>.

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 email nrotcadv1@famuc.edu

FSU—Panama

Director: Jeremy Brown

The Florida State University International Programs Division administers a permanent campus of approximately 400 full-time students in the Republic of Panama. Offering a full program of courses at the lower-division level and selected majors, FSU-Panama offers the associate and the bachelor's degrees. The campus serves US 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.

Special programs, such as the FSU International Programs and the Institute for Tropical Medicine and Health Sciences, attract scholars and researchers worldwide. 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 and computer classrooms. The campus is located at the Pacific entrance to 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 US students who seek a one-semester term of overseas studies. For further information, please consult the campus' website, <http://www.fsu.edu/panama>, our office at *A5528 University Center*; or call (850) 644-7822.

Center for Professional Development and Public Service

Director: William H. Lindner

The Center for Professional Development (CPD) provides continuing education and other outreach activities locally, statewide, nationally, and internationally on behalf of The Florida State University. Activities include academic programs, professional programs, technical training and e-media services for lifelong learners. These activities are delivered face to face and via distance technologies. All of the center's programs and activities support its mission to extend the resources of the University to promote lifelong learning.

The center is housed in the Turnbull Building, which is located on the southeast edge of the campus, just six blocks from downtown. The Turnbull Building offers an auditorium, meeting rooms, and a dining room to facilitate meetings, workshops, and symposia for The Florida State University community. This facility provides state-of-the-art audiovisual equipment, access to

teleconferencing, and an experienced continuing education staff. Continuing education coordinators assist with program development, budgeting, marketing, logistics, technical assistance, and on-site management.

Components of the Center

Academic Programs. In conjunction with the University's academic departments, CPD coordinates degree and certificate programs for non-traditional, part-time students—adults who cannot set aside job and family responsibilities but desire to further their undergraduate or graduate studies. These programs provide lunchtime, evening, and weekend classes that lead to degree completion at a pace that is comfortable for the part-time student. Programs can be found throughout Florida, from Pensacola to Jacksonville to Miami. A number of programs are delivered via distance technologies. In addition, credit classes which may count toward a degree program are made available in the workplace.

The center administers **Returning Student Services** to assist non-traditional students. Services range from advising and registration to information about childcare and financial aid. The center sponsors several tuition scholarships for returning candidates. CPD also serves as a test site for the State of Florida, Division of Colleges and Universities' Independent Study by Correspondence Program.

Professional Programs. CPD develops, promotes, and administers a wide range of noncredit programs and certifications via both traditional classroom settings and online. Lifelong learners can remain current in their fields and maintain licensing and Continuing Education Unit (CEU) requirements by accessing CPD's instructor-led and online course offerings. (One CEU is defined as ten [10] contact hours of participation in an organized continuing education experience under responsible sponsorship, capable direction, and qualified instruction. The Office of the University Registrar records and maintains CEUs on a permanent, confidential transcript that can be issued at the request of the participant.) The center provides synchronous and asynchronous online learning opportunities that make it possible for adult learners to study and learn in the comfort of their homes or offices.

The professional programs unit focuses on career skills development, personal enrichment, and health and fitness offerings. Current courses include the following: Certified Financial Planner Online (in conjunction with the College of Business); Continuing Legal Education Online (in partnership with the Florida Bar and the College of Law); Seminole Fitness; Test Preparation; Business Management; and Critical Writing.

Technology Training. CPD's technology training unit offers the latest in industry certified training programs that can be customized to individual learner or employer needs. Technical training course offerings may include Oracle, FSU certified webmaster, Linux, MCSE, and A+ certification. Classes are offered at the Turnbull Center and in Panama City, Florida. CPD also delivers technical training at a client's workplace or site, with experienced teachers and technicians.

E-media Services. The e-media services unit of the Center for Professional Development works with clients within and outside the University to develop and disseminate comprehensive and customized educational programs. Their web-based media services include the following: information and database designs; user interfaces for online professional development and credit programs; and online registration, payment, and course evaluation tracking systems.

The Center for Intensive English Studies (CIES). 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. CIES also provides English-as-a-second-language services for the spouses of regular students at The Florida State University as well as for some already admitted international students who are experiencing difficulty in mastering the English language. *Center for Intensive English Studies, 918 West Park Avenue, The Florida State University, Tallahassee, FL 32306-4170. Phone: (850) 644-4797. E-mail: cies@mailers.fsu.edu.*

Anyone interested in obtaining further information regarding the Center for Professional Development's services or programs should contact the *Center for Professional Development, The Florida State University, Tallahassee, FL 32306-1640.* The center's website can be accessed at <http://learningforlife.fsu.edu>. Phone: (850) 644-3801.

The Florida Center for Public Management

Interim Director: James R. Anderson, Jr.

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, survey research and feedback, integrated information systems planning, leadership and staff team-building workshops, and various problem-solving techniques. As such, FCPM complements the academic instruction of the University's School of Public Administration and Policy, the departments of Management, Communication, and Educational Leadership, and related disciplines.

To obtain further information about FCPM and its services, write or call: *The Florida Center for Public Management, The Florida State University, HMB 102, Tallahassee, FL 32306-2821. (850) 644-6460.*

Learning Systems Institute

Director: Laura B. Hassler
Associate Director: Tristan Johnson

The Learning Systems Institute is a multi-disciplinary research and development unit dedicated to improved human performance. For over thirty years the Learning Systems Institute (LSI) has

been a recognized world leader in applying instructional systems design (ISD) in school, business, industry, and military settings. Over the thirty-year period, the Learning Systems Institute has brought more than \$130 million in externally funded research to The Florida State University, providing 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.

There are several areas of research that serve as the current focus for LSI:

1. K–20 education research and development with an emphasis on reading;
2. Needs assessment and planning;
3. Improvement of training and learning through distributed learning and other technologies;
4. The study of expertise;
5. International development through improved learning systems; and
6. Change management.

To obtain further information about LSI, contact *Learning Systems Institute, 4600 UCC, Tallahassee, FL 32306-2540. (850) 644-2570.* The institute's website may be accessed at <http://www.lsi.fsu.edu>.

Office for Distributed and Distance Learning

Director: Lawrence C. Dennis
Associate Director: Sandra H. Calhoun

Main Office: (850) 644-8004

The Office for Distributed and Distance Learning (ODDL) supports online teaching and learning for the Florida State University community, and assists faculty in their pursuit of instructional excellence. ODDL supports on-campus students in enhancing learning through course websites; assisting distance students in completing courses and degree programs via technology; and faculty in advancing the design, delivery, and assessment of classroom and web-based instruction. See <http://online.fsu.edu> for detailed and current information.

Student Support

On-campus students. If you are an on-campus student who needs support in using the University's electronic campus or a course website, instruction and solutions are available online at <http://online.fsu.edu/student> or via e-mail at problems@campus.fsu.edu.

ODDL provides on-campus students:

- Online instruction in navigating course websites
- Contacts for technical support
- Schedules of web-supported courses

Students learning at a distance. If you have an associate's degree or higher, you can use a computer and the Internet to earn a bachelor's degree

in Computer Science, Information Studies, Interdisciplinary Social Science, Nursing, or Navy College Program. As a distance-learning student, you will receive individualized attention through course mentors who will guide you through course work and monitor your progress.

ODDL provides students learning at a distance:

- Online guidance from application to graduation
- Online orientation
- Online instruction in navigating course websites
- Schedules of online courses

For more information, contact Kimberly Amos-Tata at kamos@oddl.fsu.edu.

Faculty Support

Electronic campus support. Faculty integrating a course website into an on-campus class or teaching an online course may receive comprehensive support from ODDL in developing, delivering, and managing an online environment. The University has developed one of the most advanced and easy-to-use electronic campuses in the country.

Online teaching workshops for faculty:

- Developing and managing course websites
- Teaching via the Web
- Customized workshops for departments

Online teaching services for faculty:

- Planning, designing, and managing course websites and enhancing face-to-face courses with web support
- Creation of fully online courses
- Tutorials on delivering course websites
- Ongoing problem solving and support
- Applications development

Online teaching and learning resources:

- Technical support at <http://online.fsu.edu/online-support>
- Learning resources at <http://online.fsu.edu/learningresources>

For more information, contact the following: Mike Barker, mbarker@oddl.fsu.edu; John Braswell, jbraswell@oddl.fsu.edu; or Kyle Stierwalt, kstierwalt@oddl.fsu.edu.

Instructional support services. Faculty can further their planning, teaching, and technology skills through workshops and individual consultation offered by Instructional Development Services (IDS). IDS also assists graduate teaching assistants in improving their academic leadership and teaching skills.

Instructional services programs:

- Faculty Support: Consults with full-time faculty and offers classroom observation to enhance instruction and integrate technology

- Program for Instructional Excellence (PIE): Assists graduate teaching assistants in academic leadership and teaching skills

- Preparing Future Faculty (PFF): Prepares graduate students who anticipate careers in academe through mentoring opportunities with educators and administrators

Instructional services resources:

- Instructional services and contacts at <http://online.fsu.edu/instructor/teachingenhancement>
- Reference materials on college teaching, higher education, and use of technology in the classroom
- Camcorders available for instructional analysis

For more information, contact the following: Walt Wager, wwager@oddl.fsu.edu; Cheryl Stratton, cstratton@oddl.fsu.edu; or Michelle Chandrasekhar, mchandrasekhar@oddl.fsu.edu.

Digital media production. Faculty who are enhancing teaching and learning through multimedia are supported by Digital Media Production (DMP), with services ranging from producing online course components to promoting student recruitment and image awareness for degree programs.

Digital media services include:

- Website design and webcasting
- Digital audio and video production and streaming
- Graphic design, animation, digital imaging and photography, and design and layout of print media
- Developing interactive CD-ROMs

Digital media resources:

- Online request form at <http://online.fsu.edu/digitalmedia>
- Searchable image database

For more information, contact the following: Joanna Southerland, jsoutherland@oddl.fsu.edu; or Dave Simpson, davesimpson@oddl.fsu.edu.

External relations and development. Faculty interested in finding external funding for instructional technologies projects are assisted by the External Relations and Development staff. The staff also seeks strategic partnerships with community colleges and other educational institutions. For more information, contact Carol Hayes at chayes@oddl.fsu.edu.

Assessment Services

Faculty and students may receive support for a range of testing and evaluation needs through Assessment Services.

Student services:

- Provide standardized state tests such as CLAST, FTCE, and others

- Provide standardized national tests such as ACT, SAT, LSAT, MCAT, and others

Faculty services:

- Mark-sense scanning and test scoring and analysis
- Administering University and department faculty evaluation instruments (SUSSAI, e-SUSSAI, SIRS) and administering national and state testing programs for the University and the outlying community
- Technical support for data collection and analysis in faculty and student research

For more information, contact Bonnie Armstrong, (850)644-3017, barmstrong@oddl.fsu.edu.

Institute for Cognitive Sciences

Acting Director: Dr. L. J. Kohout

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 certificate is offered for graduate study in cognitive sciences.

L.L. Schendel Speech and Hearing Clinic

Director: Juliann Woods, Ph.D.

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 The Florida State University students in speech language pathology and audiology. Specific services include:

- Comprehensive Speech-Language Assessment and Therapy
- Hearing Assessment and 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 writing or calling: *L.L. Schendel Speech and Hearing Clinic, 107 Regional Rehabilitation Center, The Florida State University, Tallahassee, FL 32306-1200; (850) 644-2238 (Voice and TDD), Fax (850) 644-8994.*

Libraries

The Florida State University libraries are the intellectual center of the University, providing students, faculty, and staff with virtual and physical resources and services to facilitate learning, teaching, and research. The Florida State University libraries include the Robert Manning Strozier Library (the main library), the Paul A.M. Dirac Science Library, the Mildred and Claude Pepper Library, the Harold Goldstein Library, the Warren D. Allen Music Library, the Law Library, the College of Medicine Medical Library, and the Career Center Library. Library materials and services also are available at The Florida State University's off-campus sites, including the Ringling Museum of Art, the Panama City campus, and the study centers in London, Florence, and the Republic of Panama.

The libraries support the University's educational and research missions through extensive collections and a wide range of services available to the campus community and to distance learners virtually and in person. The libraries' resources include more than 2,500,000 books and periodicals, over 928,000 government documents, more than 9,000 films, videos, and DVDs, and over 6,795,000 microforms. Access to over 250 subscription databases, 54,000 e-books, and more than 14,000 electronic journals covering a wide variety of subjects is available from offices, residence halls, homes, and other remote locations, as well as in the libraries. The online catalog is available on the library's website and provides access not only to the University's collections, but also to those of the other ten state universities. Worldwide information resources are available readily through the Internet. Access to materials and resources not held in the University's collections is available through interlibrary loan and document delivery.

Members of the library staff assist students, faculty, and staff in making the best use of information resources by providing research guidance and information assistance, offering one-on-one instruction and instructional classes, and developing research guides. Professional research assistance is available via the Internet, by telephone and in the library.

A state-of-the-art media center provides equipment and facilities for listening to or viewing multimedia materials. The libraries provide Internet-accessible computers, printers, and photocopiers for convenient use. Additional computers for research and word-processing are available in a student computer center located in Strozier Library. Adaptive equipment and software for students with disabilities also are available.

The library is a member of the Association for Research Libraries (ARL), the Center for Research Libraries (CRL), the Research Libraries Group (RLG), and the Association of Southeastern Research Libraries (ASERL).

The **Robert Manning Strozier Library**, the University's main library, is located strategically in the center of the main campus and occupies seven floors. 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. Its Special Collections Department includes rare and unique materials for research and study. The library's website is located at <http://www.fsu.edu/library>.

The **Paul A. M. Dirac Science Library**, located in the heart of the Science Center complex, consolidates the University libraries' scientific and technical books and periodicals in one central location. The Library's website is located at <http://www.fsu.edu/library/dirac/index.shtml>

The **Mildred and Claude Pepper Library** contains the personal and professional papers and mementos of one of Florida's best-known political couples. Reconstructions of United States Congressman Pepper's Senate and House offices are in the building. Log on at <http://pepper.cpb.fsu.edu/library/default.htm> for more information.

The **Warren D. Allen Music Library**, located in the School of Music, contains a collection of recordings, scores, books and periodicals that support the school's curriculum. The library's website is located at <http://otto.cmr.fsu.edu/~library/home.html>.

The **Harold Goldstein Library**, located in the School of Information Studies, contains a collection of professional library science materials and reference materials, as well as juvenile materials and picture books. Visit <http://goldstein.lis.fsu.edu> for more information.

The **Law Library**, operated by the College of Law, has a collection containing over 440,000 volumes and volume equivalents, and approximately 5,000 subscriptions. Legal research is complemented by an array of electronic databases, including the LEXIS and WESTLAW legal research databases. Log on at <http://www.law.fsu.edu/library> for more information.

The **College of Medicine Medical Library** provides access to a number of electronic medical databases and a growing collection of books and journals. Visit <http://www.med.fsu.edu/library/> for more information.

The **John and Mable Ringling Museum of Art Library** is housed on the Ringling Museum Campus in Sarasota, Florida, the largest museum/university complex in the nation. It contains more than 60,000 books, auction catalogs, and other materials supporting art-related research. Special collections contain circus history items including John Ringling's original collection of more than 600 books. The library's website is at <http://www.ringling.org>.

Panama City Campus library services are provided to students, faculty, and staff at that location through an arrangement with Gulf Coast Community College (GCCC). Florida State University's books and journals are housed at GCCC Learning Resource Center, and electronic resources access is available onsite at the campus. An onsite librarian assists users who also may contact campus libraries.

Undergraduate Education

The Florida State University provides for undergraduate students a strong liberal arts-based baccalaureate experience. 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 and humane solutions. Through the Liberal Studies Program, required of all undergraduates, students are introduced to the broad array of disciplines at the University. The freshman and sophomore years enable students to explore the breadth of the curriculum and to find the degree program most appropriate to their interests and abilities. The Florida State University strives to teach students to think logically, to analyze clearly, and to communicate with precision and power.

Graduate Education (see *Graduate Bulletin* for details)

Emphasis at The Florida State University is placed upon advanced degree programs entailing extensive research activities and preparation for careers in science, the arts, the humanities, the professions, and technological fields. The University's diverse curriculum leads to graduate degrees with flexible options that allow 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 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.

Faculties

It is the official policy of The Florida State University to recruit the most talented faculty from leading centers of learning throughout the world. The University faculty has included five Nobel laureates and ten members of the National Academy of Sciences. Many of its members have received national and international recognition, and the University enjoys national ranking in a number of disciplines. The diversity and quality of the educational backgrounds of the faculty are reflected in the institutions that have granted their graduate degrees. A complete listing appears in the back of this *General Bulletin*.

Affiliations

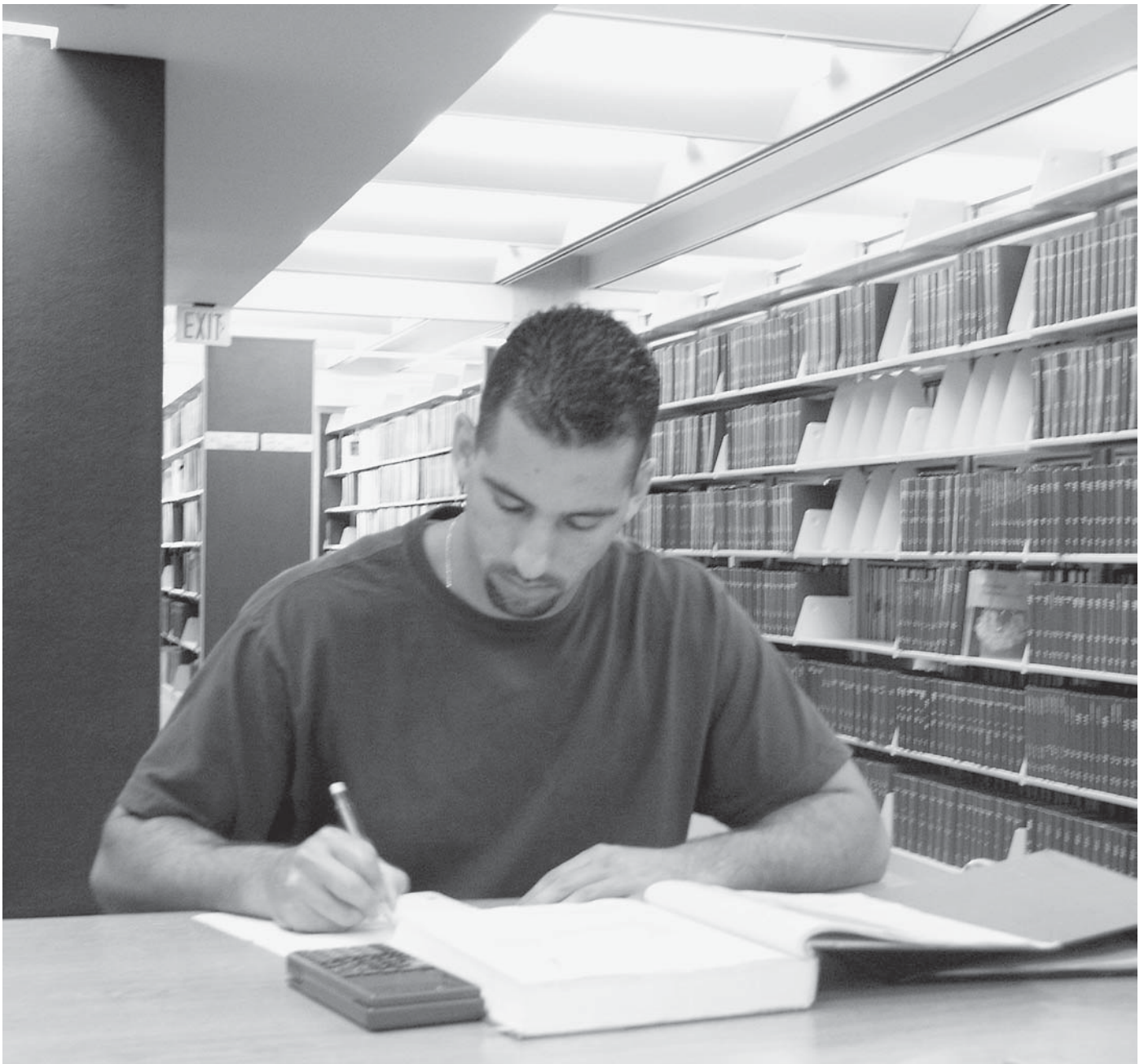
The University participates in the Traveling Scholar Program (for graduate students), Academic Common Market, and Cooperative Programs within the State of Florida, Division of Colleges and Universities. The Florida State University is a member of the University Research Association; the Oak Ridge Associated 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; the State University System's Institute for Oceanography; the University Space Research Association; and CAUSE: The Association for the Management of Information Technology in Higher Education.

Accreditation

The Florida State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (*1866 Southern Lane, Decatur, Georgia 30033-4097*; Telephone number 404-679-4501) to award associate, bachelor's, master's, and doctor's degrees. For departmental/field accreditations, refer to the respective college or school's chapter in this *General Bulletin*.

Carnegie Foundation Classification

The Carnegie Foundation, in its 1994 report, ranked The Florida State University in the Research Universities I category, its highest category for a graduate-research university. The Florida State University is one of eighty-nine American universities to have earned this designation at that time.



RESEARCH FACILITIES AND SPECIAL PROGRAMS

Research and Research Facilities

Since its designation as a university in 1947, The Florida State University has built a reputation as a strong center for research in the sciences, the humanities, and in the arts. In fiscal year 2002, faculty at The Florida State University secured its highest level of external funding in the University's history: \$147.9 million. These external 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 The Florida State University faculty are renowned scholars in their fields. In the natural sciences, The Florida State University is perhaps best known for its basic research programs in physics, nuclear science, chemistry and biochemistry, biology, psychology, meteorology, and oceanography. Its programs in geology, mathematics, computer science, and statistics also have strong research components, both basic and applied. The University also has a joint program in engineering with Florida Agricultural and Mechanical University (FAMU) in Tallahassee.

In the humanities, the University is a nationally recognized center of excellence in graduate training. A number of humanities faculty members have distinguished themselves through service as heads of national academic organizations in philosophy, English, history, and religion. In recent years, several of these departments have won national acclaim and today are considered among the best in the South.

The arts at The Florida State University have been an important and integral part of the University's mission since its early development as a premier liberal arts institution in the early 1900s. The schools of Music, Theatre, Visual Arts and Dance, and Motion Picture, Television, and Recording Arts contribute to this mission in several ways. They provide leadership for the cultural development of the state, and they provide state and national service to their professions through research programs, creative activities, and various continuing educational services. The arts schools also contribute a wide spectrum of public service and outreach activities by offering extensive performances and exhibits both on campus and throughout the state, and by bringing leading arts professionals to Florida through special festivals and national and international meetings of professional organizations.

The arts disciplines at The Florida State University are among the most comprehensive of any university in the nation. They provide extensive and varied academic offerings, both for general University students and for students who wish to

pursue professional careers in the arts, whether as creative artists, performers, scholars, or educators.

Researchers in many disciplines take advantage of the University's location in Florida's capital city. Graduate students in such diverse fields as urban and regional planning, criminology, social work, business, governmental affairs, population studies, public administration, and law have ready access to state government information and to many internships offered within state agencies.

Computing and information technology are widely used at The Florida State University for both research and instruction. A high speed computer network reaches throughout the campus and connects the University to the Internet. **Academic Computing and Network Services (ACNS)** provides free accounts for computer and Internet access to all students, faculty, and staff. ACNS also operates general purpose computing servers and supercomputers that are available to the entire campus, and provides open-access computer laboratories for students.

Special Programs

A number of The Florida State University's special programs have won national or international distinction in research. These include the following:

The National High Magnetic Field Laboratory, which opened in 1994, is one of the nation's newest research laboratories and 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, home to Nobel Laureate Robert Schrieffer, 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 magnet of its kind in the world. The National High Magnetic Field Laboratory has many excit-

ing 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.

The Florida State University has established an interdisciplinary **School of Computational Science and Information Technology (CSIT)** to support graduate education and research, to provide a leading-edge high-performance computational facility, and to contribute to a high level of computational culture beneficial to the nation and the state.

CSIT embraces all of the possible inferences drawn from its name: its scope includes the science and technology of performing, analyzing, and archiving large-scale computations over wide-area networks, and its goal is to employ large-scale computer and network resources in pursuit of scientific and technological research goals. Both the tools and content of computational science are embraced by the educational mission of the school.

The Computational and Information Science Laboratory (CISL) provides the infrastructure for the interdisciplinary research and education programs. Through the acquisition and maintenance of the state-of-the-art computing, visualization, and high-bandwidth network connections to other major national centers, the laboratory provides support for The Florida State University's existing and future user-base of large-scale high-performance computing. A user services staff proactively inculcates a high-performance computing culture through consulting services and short courses.

The Center for Materials Research and Technology (MARTECH) is a collaborative program in materials science involving members of the University's physics, chemistry, biology and engineering departments. The center's rapidly expanding facilities include several thin-film preparation labs, a light-scattering facility, a fast Fourier Transform Far Infrared spectrometer laboratory, facilities for fabricating nanostructured materials, including a clean room, photo- and electron-beam lithography, extensive surface analysis equipment including XPS, helium-scattering and scanning probe microscopy and equipment for the study of electrical transport and magnetic as well as superconducting properties of complex materials.

The Program in Nuclear Research is highly ranked nationally, with emphasis on nuclear structure physics; radioactive beam studies; studies of nuclear reaction mechanisms using polarized Li beams; accelerator based atomic physics; electron scattering; and relativistic heavy ion reactions. A large part of the program in experimental nuclear physics and atomic physics uses The 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 which injects into a heavy-ion superconducting linear accelerator. This facility, with state of the art instrumentation, provides forefront nuclear research capability and is unique in the southeast.

The **Institute for Molecular Biophysics** is recognized as a national leader in basic, interdisciplinary research in biochemistry and physical chemistry. A large effort based in the IMB is its Program in Structural Biology, begun in 1990. The primary research focus of this group is the elucidation of the three-dimensional structures, functional properties, and assemblages of biological macromolecules using biophysical techniques (e.g. X-ray crystallography, cryoelectron microscopy, electron diffraction, computational modeling, EPR and NMR spectroscopy).

The **Florida State University Marine Laboratory** is located 45 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. The **Academic Diving Program**, which is part of the laboratory and is located on the main campus, provides support for and oversight of all scientific and educational compressed-gas diving conducted under the auspices of The Florida State University. The Academic Diving Program also teaches or co-teaches courses in scientific diving methods for biologists and archaeologists, and teaches courses and workshops in SCUBA, from basic through instructor, as well as a number of diving specialties including dry-suits, underwater photography, full-face mask and helmet diving, and techniques for underwater search and recovery for public safety divers.

The **Cooperative Institute for Tropical Meteorology** was created in 1993 through a partnership between The Florida State University and the National Oceanic and Atmospheric Administration (NOAA), the parent agency of the National Weather Service. The Institute brings together faculty at The Florida State University with research and operational meteorologists at forecast offices throughout the southeastern United States and Puerto Rico. Faculty also work with scientists at the National Center for Environmental Prediction in Washington, D.C. and the National Hurricane Center in Miami. Taking advantage of one of the historical strengths of the Department of Meteorology, faculty, students, and researchers outside of The Florida State University benefit from the many interactions produced as a result of the Institute.

The **Center for Ocean-Atmospheric Prediction Studies**, located at the Don Fuqua Research Complex at Innovation Park, trains oceanographers and meteorologists in research focusing on the impact of tropical and mid-latitude ocean dynamics on global weather patterns. COAPS scientists specialize in climate prediction on scales of months

to decades, air-sea interaction and modeling, and predictions of socio-economic consequences of ocean-atmospheric variations.

The **Center for Music Research (CMR)** exists to foster research and publication and provides a support system for graduate education, faculty and student research, post-doctoral study, and occasional workshops, symposia, and visiting scholars. The aims include developing new knowledge about music, music education, music therapy, and related areas through scholarly inquiry. Research programs in all music phenomena are encouraged and include the following: music perception and cognition, music skill acquisition, music listening, music and emotion, music acoustics and psychoacoustics, instructional techniques, music education and therapy applications, pedagogy and other topics.

The **John and Mable Ringling Museum of Art** located in Sarasota, Florida, is the designated State Museum of Florida. Recently the Legislature shifted administration of the museum to The 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 new 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, Ca' d'Zan, the Ringling Mansion, and the Circus Museum. Together with The Florida State University Performing Arts Center, which lies adjacent to the art museum, it holds center stage for The Florida State University Ringling Center for the Cultural Arts which was created by the Florida Legislature in the year 2000.

The Florida State University **Institute of Science and Public Affairs** is a multifaceted institute of public service and applied research which 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 The Florida State University have benefited from its membership in **Oak Ridge Associated Universities (ORAU)**. ORAU is a consortium of eighty-seven colleges and 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, as well as 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. A comprehensive listing of these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the *Resource Guide*, which is available on the World-Wide-Web at <http://www.orau.gov/orise.htm>, or by calling either of the contacts below. ORAU's Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU's members, private industry, and major federal facilities. Activities include faculty development programs, such as the Junior Faculty Enhancement Awards and the Visiting Industrial Scientist Program, and various services to chief research officers. For more information about ORAU and its programs, contact Dr. Raymond E. Bye, Jr., ORAU Council Member, at 850-644-3347; contact Monnie E. Champion, ORAU Corporate Secretary, at 423-576-3306; or the ORAU home page at <http://www.orau.gov>.

A long-time member of the Southeastern Universities Research Association, Florida State University also is a new member of a seven-university consortium, headed by the University of Tennessee, that serves as an advisory group to the new managers of the Oak Ridge National Laboratory (ORNL). The group's mission is to work with ORNL's new not-for-profit management company, UT-Battelle, to set scientific and engineering research priorities for ORNL. The Florida State University joins UT, the University of Virginia, Virginia Tech, Duke University, Georgia Tech and North Carolina State University in this capacity.

INTERNATIONAL PROGRAMS

International Commitment

The Florida State University recognizes that a great university ideally 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 our 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 urgent that the teaching, research, and service of The 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 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 The Florida State University students who have studied overseas play an important role.

To accomplish these goals, The 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.

The 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.

Beyond Borders: International Service and Cultural Exchanges

Coordinator: Roberta Christie, International Center

Beyond Borders is a university-to-university exchange program that provides opportunities for students to engage in intensive, short-term intercultural experiences while performing community service. Currently, The Florida State University has exchanges with the University of Costa Rica, Atlantic Branch (Turrialba, Costa Rica) and the University of the West Indies, Mona Campus (Kingston, Jamaica). Participants live with local families or in university facilities and serve as volunteers in projects organized by the host institutions, which also arrange for housing and most meals. Air travel, required health insurance, special trips and some administrative costs are paid by participants. All Florida State University students are eligible to apply; groups are limited to 10-12 students. 107 South Wildwood, Tallahassee, FL 32306-4240; (850) 644-1702; rchristi@admin.fsu.edu; <http://www.fsu.edu/~fsu-isc>.

International Programs

Director: James E. Pitts;
Associate Director: Michele E. Ceci;
Academic Administrators: John B. Brennan,
Joan W. Cassels

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

Further assistance in applying for any of these programs may be obtained by writing or calling *International Programs Office, A5500 University Center, Tallahassee FL 32306-2420. (850) 644-3272, (800) 374-8581. Fax (850) 644-8817. Email: intprog@www.fsu.edu. Website: <http://www.international.fsu.edu>.*

Year-round Programs

Republic of Panama/Florence/London/Valencia

Director, International Programs: James E. Pitts;
Florence Resident Director: Victor Carrabino;
London Administrative Director: Mary Balthrop;

Valencia Administrative Director: Ignacio Messana;

Valencia Academic Director: David Nordlund;
Panama Director: Jeremy Brown

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 Valencia, Spain, since 2000. The FSU-Panama campus has operated through The Florida State University since 1957. At each of these locations, the Florida State University faculty and approved adjuncts conduct liberal studies as well as specialized courses during each of the Fall, Spring, and Summer semesters. The centers are open to students from all state universities in Florida as well as other U.S. institutions.

All of these year-round centers offer courses which enable students to make normal progress toward their chosen degrees. In Florence, the courses usually offered are in the areas of art history, classics, English writing and literature, history, the humanities, Italian language, and politics. Students also may complete an interdepartmental Italian Studies Florence Center minor. The London center offers courses in the areas of art history; education, English literature, history, music, politics, social sciences, theatre, and select areas which fulfill some general studies area requirements. The School of Theatre also offers a *Theatre Experience* program for majors. The Department of Art History co-sponsors programs in *Museum Studies* in London and Valencia. There are numerous internships available. Students may also complete an interdepartmental British Studies London Center Minor. In Valencia, courses are offered in English literature, the humanities, music, Spanish language, literature and civilization, and select areas which fulfill some general studies area requirements. Internships are available for a variety of majors. Courses in Valencia are taught by The Florida State University faculty and approved local adjuncts. Courses in Florence and London are taught by regular faculty and instructors from the State of Florida, Division of Colleges and Universities, and approved local adjuncts. For further information on the British Studies or Italian Studies Minors, refer to the "Academic Departments and Programs" chapter of this *General Bulletin*. Internships and research opportunities are available.

Summer Programs

San Jose, Costa Rica

During the summer in Costa Rica, students live with selected Costa Rican host families. Classes are taught by Florida State University faculty supplemented by approved Costa Rican adjunct faculty. Courses generally cover Spanish language, literature and civilization; history of Mexico, Central America and the Caribbean; business; and politics.

Dubrovnik, Croatia

Thirty years ago, The Florida State University established an educational link with the then-Yugoslavia to forge further understanding of a rapidly evolving Southeast Europe. This linkage has changed with the dynamics of the democratic region, and is now an ongoing summer program in the coastal city of Dubrovnik, Croatia. On the program, students will explore the topics of politics, culture, and transition through coursework and excursions in and around the region. Studies will be based at the historic Inter-University Centre.

Prague, Czech Republic

The Florida State University offers a summer program in Prague. Course offerings vary and cover a broad range of academic areas including comparative criminal justice; comparative politics; history and culture; and hospitality administration. Typical cultural excursions have included Cesky Krumlov, south of Prague, and Krakow and Auschwitz in Poland.

Oxford, England

Students experience the Oxford tradition of small tutorial/seminar groups taught by British faculty in this program offered in concert with the Oxford University Department for Continuing Education and Christ Church College. Participants live and work on campus in Christ Church Oxford, a college founded in 1546, and take their meals in its majestic dining room. They enjoy field trips in and around Oxford and have access to the Ashmolean Museum and the world-renowned Bodleian Library.

Paris, France

This program offers courses that typically include elementary, intermediate and advanced language; contemporary French culture, and civilization; art history and English writing and literature courses. Courses will be taught by Florida State University faculty and approved local adjuncts.

Munich, Germany

This session takes place within the rich artistic culture of Bavaria's historical capital. Course offerings vary and include courses which fulfill some general studies area requirements. Faculty include both Florida State University professors and approved adjuncts. Course-related trips have included country castles in the Alps, monastic houses (e.g. Ettal), Oberammergau; Salzburg, Austria; and cultural events within Munich.

Accra/Kumasi, Ghana

In cooperation with the Institute of African Studies at the University of Ghana, Legon, The Florida State University offers an intensive program. Students will have the opportunity to sensitively conduct photography projects within the atmosphere of Africa's urban culture. This workshop will include class work examining the various approaches used to photograph people and culture while exercising knowledge and sensitivity. Students also will be offered a course in West African aesthetics among the Ga and Ashante peoples of Ghana.

Chalkidiki, Greece

Led by Florida State University faculty, studies in this summer program generally include courses in art history, classics, literature, and humanities. In the past, this program has included visits to Thessaloniki, Mount Olympus, Petralona, Mount Athos, and Athens. The program also incorporates a study cruise to various areas of classical cultural significance. Previous destinations have included ancient Ephesus, Rhodes and Crete.

Dublin, Ireland

Housed within the prestigious Trinity College, this summer program gives students the opportunity to take courses taught by distinguished Florida State University and University of Dublin faculty. Courses focus on Irish life and culture, humanities, theater, and history. The program typically includes an introductory exploration of the city and its surroundings. Longer course-related field trips are made; typical destinations may include Galway, the Aran Islands, and prehistoric New Grange.

Tokyo, Japan

Topics to be covered in this, our newest program, include the marketing of goods and services both intra-nationally and across borders. Based at Nihon University in Tokyo, one of the top business schools in Japan, the program has been developed for business majors and economics majors. Other related majors may be considered if prerequisites are met. Students will engage in day trips to popular sites such as Kamakura, Mount Fuji, the Tokyo Stock Exchange and the Diet.

Moscow, Russia

This program is based in Moscow with a program enhancement excursion to St. Petersburg. Students are housed in and take classes at Moscow State University. Courses are taught by Florida State University faculty and approved faculty from Moscow State University. No previous knowledge of Russian is required. Language classes are offered for beginning through advanced students. Other courses include Russian literature, culture, and civilization.

Cape Town, South Africa

The broad selection of courses taught by Florida State University faculty is enhanced by the expertise of South African artists, professionals, and professors in the fields. The study program is affiliated with and uses the facilities of the University of the Western Cape. The program also includes an excursion to Johannesburg, the primary business, art, and cultural center of South Africa.

Seoul, South Korea

Students will live and learn in modern facilities at Chugye University for the Arts, in central Seoul. The university's focus on contemporary as well as time-honored Korean arts such as brush painting, Korean opera, and traditional music ensures a rich exposure to Korean art and culture. Professors and artists from this prestigious institution will take part in instruction, giving students rare insight into Asian perspectives and techniques.

Leysin, Switzerland

A summer offering since 1970, this program offers both hospitality administration majors and interested non-majors the opportunity to explore the heartland of Europe's hospitality and tourism industry. The program offers students an ideal educational balance of lectures, seminars, and on-site industry observations. The student's experience will be enhanced by travel to nearby destinations.

Port of Spain, Trinidad and Tobago

One of our newest international offerings, Trinidad offers a spectacular tropical environment. Students will gain much from courses in the social sciences and international relations, with an emphasis on the Caribbean. Courses are taught through the cooperative efforts of The Florida State University and the University of the West Indies, St. Augustine Campus.

Ho Chi Minh City, Vietnam

This summer program gives students the opportunity to take humanities, music, language, and interdisciplinary social science courses in the heart of Southeast Asia's evolving economy. Students will take weekend and day trips around the country, enhancing their studies and gaining a new perspective of one of the world's least-known and most unspoiled nations.

For further information on any of the Summer programs, contact the *International Programs Office*, A5500 University Center, 32306-2420. (850) 644-3272, (800) 374-8581. Fax (850) 644-8817. E-mail: intprog@www.fsu.edu. Website: <http://www.international.fsu.edu>.

Law Program at Oxford

The Florida State University conducts an international law program in the prestigious academic atmosphere of Oxford University. 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 adjunct professors from 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. Website: www.law.fsu.edu/academic_programs/international_law.

Specialized Summer Programs

In addition to specific offerings to students of law, The Florida State University offers a rapidly expanding selection of specialized study programs. These programs are special interest, major-oriented programs. London, England, hosts the majority of these programs, with Valencia, Spain, being the second most popular site. In addition, a number of programs utilize multiple locations around Europe for their studies. A wide variety of special topics and areas of interest are represented. Historically, The Florida State University has offered programs with emphasis in such areas as social work, interior design, international affairs and many more. If you are interested in

obtaining specific information about the specialized courses of study available this summer, please contact the International Programs Office, A5500 University Center, 32306-2420; (850) 644-3272; or consult our website: <http://www.international.fsu.edu>.

Other Programs

Archaeology Programs in Italy

Director: Nancy T. de Grummond

The Department of Classical Languages, Literature and Civilization conducts archaeological excavations at two Etruscan/Roman sites in Italy—Cetamura del Chianti, near Siena, and San Venanzo, near Orvieto. Each summer the department sponsors field schools of approximately six weeks at these sites. The field schools are open to students from colleges and universities throughout the state of Florida and constitute a significant part of the master's degree program with a concentration in classical archaeology. For further information, contact the Department of Classical Languages, Literature and Civilization, 205 Dodd Hall.

Florida–Costa Rica Institute

Co-director: Joan W. Cassels

The Florida State University and Valencia Community College co-administer The Florida–Costa Rica Linkage Institute on behalf of the state's higher education systems.

The Florida–Costa Rica Linkage Institute (FLORICA) is one of the three original linkage institutes established by the Florida Legislature in 1986. The International Linkage Institute Program has expanded since that time to include a total of 11 institutes throughout the state.

The intent of the Florida Legislature is for the Florida-Costa Rica Linkage Institute to offer opportunities at both the university and community-college levels for education and training; state development; curriculum development; collaborative research; technical assistance; cultural, faculty, and student exchange; intensive Spanish instruction; library materials exchange; computer linkage; and joint commercial ventures. These activities are to be undertaken in conjunction with Costa Rica's four public universities, its Ministry of Education, and the State of Florida's 11 state universities and 28 community colleges.

Florida–France Institute

Co-director: Joan W. Cassels

The Florida State University, the University of South Florida, and Miami-Dade Community College co-administer the Florida-France Linkage Institute on behalf of the state's higher education system.

The Florida-France Institute was established in 1989 and is one of 11 Florida bi-national linkage institutes created by the Florida Legislature to promote business, educational, cultural, and scientific exchange among Florida and other nations and regions of the world. France is a major trading partner with Florida and has growing business and investment interests in the state. Similarly, Florida seeks new opportunities for business in France, especially with its sister region Languedoc-Roussillon and the French Caribbean.

The intent of the Florida-France Institute is to serve a multitude of interest groups in Florida and France by providing opportunities for education, training, activities related to trade and business promotion, cooperative research, and mutual technical assistance, as well as educational and cultural exchange. Its purpose is to link the resources of the State of Florida's 11 universities and 28 community colleges with those of state governments and business to forge a network of partnerships with French educational, governmental, and private-sector institutions.





ACADEMIC DEGREE AND CERTIFICATE PROGRAMS

The Florida State University offers degree programs through the following colleges and schools. Consult the college or school for currently active programs.

B — Bachelor's Degree M — Master's Degree
 A — Advanced Master's S — Specialist
 D — Doctoral Degree P — Professional

College of Arts and Sciences

Actuarial Science	B		
American and Florida Studies	B	M	
Anthropology	B	M	D
Biochemistry	B		
Biological Sciences	B	M	D
Chemical Physics		M	D
Chemical Science	B		
Chemistry	B	M	D
Classical Language and Literature			
Classics	B	M	D
Greek	B	M	
Latin	B	M	
Computer and Information Science	B	M	D
English	B	M	D
Geology	B	M	D
Geophysical Fluid Dynamics			D
History	B	M	D
Humanities	B	M	D
Latin American and Caribbean Studies	B		
Mathematics	B	M	D
Meteorology	B	M	D
Modern Languages:			
French	B	M	D
German	B	M	
Italian	B		
Italian Studies		M	
Russian	B		
Slavic		M	
Spanish	B	M	D
Molecular Biophysics			D
Neuroscience			D
Oceanography		M	D
Philosophy	B	M	D
Physics	B	M	D
Physics, Interdisciplinary	B		
Psychology	B	M	D
Religion	B	M	D
Secondary Science and/or Mathematics Teaching	B		
Statistics	B	M	D

Certificate in Advanced Scientific Computing (CSIT)
 Certificate in American and Florida Studies
 Certificate in Archival Studies (History)
 Certificate in Elementary School Science
 Certificate in Information Systems Security Professionals

Certificate in Marine Biology and Living Resource Ecology
 Certificate in Museum Studies: Anthropology
 Certificate in Museum Studies: Classics
 Certificate in Museum Studies: History
 Certificate in Performance Management (Psychology)
 Graduate Certificate in Cognitive Science (Computer Science)
 Graduate Certificate in Critical Theory (English)
 Interdepartmental Certificate in Developmental Disabilities¹

Undergraduate Studies, Division of

Associate in Arts Certificate

College of Business

Accounting	B	M	
Business Administration	B	M	D
Finance	B	M	
Hospitality Administration	B		
Management	B	M	
Management Information Systems	B		
Marketing	B	M	
Multinational Business	B		
Real Estate	B		
Risk Management-Insurance	B		

College of Communication

Communication Sciences and Disorders	B	M/A	D
Communication	B	M	D
Interdepartmental Certificate in Developmental Disabilities ¹			

School of Criminology and Criminal Justice

Criminology	B	M	D
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Certificate in Corrections
 Certificate in Law Enforcement
 Certificate in Security Administration

College of Education

Adult Education		M/S	D
Comprehensive Vocational Education		S	D
Counseling and Human Systems		M/S	
Counseling Psychology and Human Systems			D
Early Childhood Education	B	M/S	D
Educational Leadership/Administration		M/S	D

Educational Psychology		M/S	D
Elementary Education	B	M/S	D
Emotional Disturbances/Learning Disabilities	B	M/S	
English Education	B	M/S	D
Foundations of Education		M/S	D
Health Education	B	M	
Higher Education		M/S	D
Instructional Systems		M/S	D
Mathematics Education	B	M/S	D
Measurement and Statistics		M/S	D
Mental Disabilities	B	M/S	
Multilingual/Multicultural Education	B	M/S	D
Physical Education	B	M/S	D
Reading Education		M/S	D
Recreation and Leisure Services Administration	B	M	
Rehabilitation Counseling	B	M/S	D
Research and Evaluation Methods		M/S	D
Science Education	B	M/S	D
Social Sciences Education	B	M/S	D
Special Education		S	D
Visual Disabilities	B	M/S	

Certificate in College Teaching
 Certificate in Early Childhood/Special Education
 Certificate in Educational Policy
 Certificate in Educational Technology
 Certificate in Human Resource Development
 Certificate in Online Instructional Development
 Certificate in Program Evaluation
 Certificate in Teaching English to Speakers of Other Languages
 Graduate Certificate in Museum Studies: Recreation and Leisure Services Administration
 Interdepartmental Certificate in Developmental Disabilities¹

FAMU—FSU College of Engineering

Biomedical Engineering		M	D
Chemical Engineering	B	M	D
Civil Engineering	B	M	D
Computer Engineering	B		
Electrical Engineering	B	M	D
Industrial Engineering	B	M	D
Mechanical Engineering	B	M	D

Certificate in Water and Environmental Resources Engineering

¹ Offered jointly by the College of Arts and Sciences, the College of Communication and the College of Education

College of Human Sciences

Clothing, Textiles and Merchandising	B	M	
Family, Child and Consumer Sciences	B	M	
Family and Consumer Sciences Education	B	M	
Food and Nutrition	B	M	
Human Sciences	B		D
Marriage and the Family			D
Movement Science	M/S		D

Certificate in Museum Studies:
Textiles and Consumer Sciences

School of Information Studies

Information Studies	B		
Library and Information Studies	M/S		D

Certificate in Museum Studies:
Information Studies

Interdisciplinary Programs

Aging Studies			M
American and Florida Studies	B		M
Asian Studies	B		M
Health Policy Research			M
Humanities	B	M	D
International Affairs	B		M
Latin American and Caribbean Studies	B		
Marriage and the Family			D
Physics Interdisciplinary Program	B		
Russian and East European Studies	B	M	
Social Science	B		M

College of Law

American Law for Foreign Lawyers			M
Law			P
Certificate in Environmental, Natural Resources, and Land Use Law			
Certificate in International Law			

College of Medicine

Medicine			P
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School of Motion Picture, Television, And Recording Arts

Motion Picture, Television and Recording Arts	B		M
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School of Music

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

Certificate in Church Music			
Vocal			
Instrumental			
Certificate in Computers in Music			
Certificate in Early Music			
Certificate in Jazz Studies			
Certificate in Music of the Americas			
Certificate in Performance			
Certificate in Piano Pedagogy			
Certificate in Piano Technology			
Certificate in Special Music Education			
Certificate in World Music			
Music Therapy Equivalency			
Graduate Artist Certificate in Performance (opera, piano, violin, viola, violoncello)			
Graduate Certificate in College Teaching			
Graduate Certificate in Pedagogy of Music Theory			

School of Nursing

Nursing	B		M
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College of Social Sciences

Aging Studies			M
Asian Studies	B		M
Demography			M
Economics	B	M	D
Geography	B	M	D
Health Policy Research			M
International Affairs	B		M
Political Science	B	M	D
Public Administration			M
Public Administration/Health Policy Research			M ²
Public Administration/Urban and Regional Planning			M ²
Russian and East European Studies	B		M
Social Science	B		M
Sociology	B	M	D
Urban and Regional Planning			M

Certificate in African-American Studies			
Certificate in Aging Studies, Undergraduate/Graduate			
Certificate in Demography			
Certificate in Emergency Management			
Certificate in Political Economy			
Certificate in Public Administration, Undergraduate/Graduate			
Certificate in Urban and Regional Planning, Undergraduate			
Graduate Certificate in Health Services Administration and Policy			

Graduate Certificate in Human Resource Management			
Graduate Certificate in Public Financial Management			

School of Social Work

Social Work	B	M	D
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Certificate in Aging Studies			
Certificate in Arts and Community Practice			
Certificate in Child Welfare Practice			
Certificate in Family Social Work Practice			

School of Theatre

Theatre	B	M	D
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School of Visual Arts and Dance

Arts Administration			M ¹
Art Education	B	M/S	D
Art, History and Criticism of	B	M	D
Graphic Design	B		
Dance	B		M
Interior Design	B		M
Studio Art	B		M

Certificate in Arts and Community Practice: Art Education			
Certificate in Arts and Community Practice: Dance			
Certificate in Museum Studies: Art			
Certificate in Museum Studies: Art Education			
Certificate in Museum Studies: Art History			
Certificate in Museum Studies: Dance			
Certificate in Museum Studies: Interior Design			

¹ Offered jointly by the School of Music and the School of Visual Arts and Dance

² Denotes dual degree program

ADMISSIONS

Director of Admissions: Janice Finney;
Assistant Directors: Linda Bodiford, Donna Bostwick, Hege Ferguson

General Policies

The Florida State University encourages applications for admission from qualified students regardless of gender, culture, race, religion, ethnic background, national origin, age, or disability. Admission of students to The Florida State University is within the jurisdiction of the University, but subject to the minimum standards adopted by the State Board of Education within the State of Florida, Division of Colleges and Universities. The admission requirements stated below are minimum requirements. Admission shall be on a selective basis within curricular, spatial, and fiscal limitations, and satisfaction of minimum requirements does not guarantee admission to The Florida State University.

An application for admission may be obtained from the Office of Admissions, The Florida State University; from Florida high schools and community colleges; from all universities in the State of Florida, Division of Colleges and Universities; and at the following website: <http://admissions.fsu.edu/online>.

An application should not be submitted earlier than one year prior to the term for which admission is desired. The Office of Admissions reserves the right to return all applications received after the published deadline for a particular term or after any enrollment limit or program limit is reached.

The Office of Admissions will mail decisions regarding admission or denial on a rolling basis. Admission is for a **specific** term. If the student is unable to enroll for the term indicated in the letter of admission, the Office of Admissions should be informed immediately. An applicant should not assume that admission is automatically deferred to a future term.

Offers of admission to the University are often contingent upon the subsequent receipt of official college, university, or high school transcripts indicating satisfactory performance, and verification of high school graduation. Failure to submit such documents before the end of the second week of classes of the initial academic term may result in the cancellation of admission and registration.

Undergraduate applicants who are denied admission to the University may appeal the admission decision to the University Admissions Committee if they feel that because of some extenuating circumstance or unrevealed data the admission decision 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 The Florida State University credit and related degrees.

Every student must complete in its entirety the student health history form provided by the Office of Admissions when admission is granted. The form must be forwarded to the Thagard Student Health Center prior to registration. The Florida State University reserves the right to cancel the admission of any applicant whose health record indicates the existence of a condition which may be harmful to members of the University community.

Admission from Secondary School

Any applicant who desires admission as a beginning freshman student after graduating from high school and before attending an accredited post-secondary institution must provide the Office of Admissions with the following:

Application for Admission. The completed application for admission and a nonrefundable \$20.00 fee payable to The Florida State University should be submitted as soon as possible at the beginning of the senior year, preferably in October, November, or December. Although it is the policy of the University not to defer or waive the application fee, this fee might be waived for applicants who can document that they have received a fee waiver from the American College Testing Program or College Board.

Secondary School Record. An official high school transcript (sent directly by the high school to the Office of Admissions) reflecting work from the beginning of the 9th grade through whatever portion of the 12th grade has been completed at the time of application is required.

College Transcripts. Students who have registered for any course work at a community college, four-year college, or university through dual enrollment or special student status must submit an official transcript from that post-secondary institution.

Test Scores. Results from the ACT or SAT I are required of all applicants for freshman admission. Either one or both of these tests should be taken no later than the February testing date of the senior year. Since the highest combination of scores is always considered, students should feel free to repeat a test.

Auditions. Auditions are required of all applicants wishing to major in music, dance, or the bachelor of fine arts (BFA) degree program in theatre. In addition to submitting the application for admis-

sion and other supporting information, prospective students should contact the School of Music, the Department of Dance, or the School of Theatre for details.

Departmental Application. A departmental application is required of all applicants wishing to major in motion picture, television, and recording arts. In addition to submitting the application for admission and other supporting information, prospective students should contact the School of Motion Picture, Television, and Recording Arts for details.

Deadlines for Applications and Supporting Documents for Secondary School Applicants

Spring semester 2004	November 3, 2003
Summer semester 2004	March 1, 2004
Fall semester 2004	March 1, 2004

The University reserves the right to close freshman admissions earlier if warranted by enrollment limitations and the number and quality of applications.

International students should refer to the "International Student Admission" section of this chapter.

Admission Requirements

Required High School Course Units

Specific high school course units are required for admission to the freshman class. An academic unit is the equivalent of a yearlong course that is not remedial in nature. Upon graduation from high school, applicants must have earned four (4) units of English (at least three [3] with substantial writing requirements); three (3) units of mathematics (algebra I level and higher); three (3) units of natural science (at least two [2] with laboratory); three (3) units of social science (includes history, civics, political science, economics, sociology, psychology, and geography); two (2) sequential units of the same foreign language; and four (4) elective units (preferably from the English, mathematics, natural science, social science, or foreign language areas).

Academic Qualifications

Most Florida students accepted to the University present at least a "B+" average in all academic subjects (grades 9 through 12) and test scores of at least 24 (composite) on the ACT or 1100 (verbal plus math) on the SAT I. Non-Florida applicants will be held to higher standards. In addition to academic grade point average and test scores, a variety of additional factors are considered.

These include a written essay, the pattern and quality of courses and curriculum, grade trends, class rank, and educational objectives. Applicants who bring to the University community other important attributes may receive additional consideration. These include talented writers and performing artists, skilled athletes, applicants having special ties to the University, and students with significant life and career experiences.

Center for Academic Retention and Enhancement (CARE)

Through the Center for Academic Retention and Enhancement (CARE), the University offers a special admissions program dedicated to assisting students who have been disadvantaged due to economic, educational, or cultural circumstances. CARE provides a comprehensive program of orientation and academic support designed to ease the student's transition from high school to college, and to build a strong academic foundation. The majority of applicants selected to participate in CARE will be first generation college students from financially disadvantaged backgrounds. Students admitted to the University through CARE will begin their studies in the summer. Interested students should submit the application for admission to the University, a supplemental CARE application available from the Office of Admissions, a one-page essay describing the student's educational goals, and two (2) letters of recommendation (one should be from a high school guidance counselor).

Freshman Scholarships

All freshman applicants who are admitted to the University are automatically considered for merit-based scholarships. Recipients are selected based upon high school grades and test scores.

Early Admission

The Florida State University provides an opportunity to outstanding high school students 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 pointing out the candidate's maturity; 2) a 3.5 or better weighted high school grade point average in the academic subjects; 3) a minimum score of 27 on the ACT or 1220 on the SAT I; 4) sufficient strength in the academic units as evidenced by the high school transcript; 5) evidence of a lack of curricular opportunity in the existing high school setting; and 6) three (3) letters of recommendation, one of which must be from the high school principal or a representative of the principal.

Admission by Transfer

Applicants desiring admission by transfer from other colleges or universities must provide the Office of Admissions with the following:

Application for Admission. The completed application for admission and a nonrefundable \$20 fee payable to The Florida State University should be submitted from six to nine months prior to the term for which admission is desired. It is the policy of the University not to defer or waive the application fee.

College Transcripts. Official transcripts from each college and university attended must be submitted 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" or transcripts submitted by the applicant are not considered official.

Secondary School Record. An official high school transcript is required of all transfer applicants who have less than sixty (60) semester hours of transferable credit (as evaluated by the Office of Admissions) or who are verifying completion of the foreign language admissions requirement with two (2) sequential units of the same high school foreign language. The transcript must reflect work completed from the beginning of the ninth grade through the twelfth grade and the date of graduation.

Test Scores. Results from the ACT or SAT I are required of all transfer applicants who have less than sixty (60) semester hours of transferable credit (as evaluated by the Office of Admissions) or who require exemption from the Florida College Level Academic Skills Test (CLAST). Arrangements should be made for the test results to be forwarded directly to the Office of Admissions.

Auditions. Auditions are required of all applicants wishing to major in music, dance, or the bachelor of fine arts (BFA) degree program in theatre. In addition to submitting the application for admission and other supporting information, prospective students should contact the School of Music, the Department of Dance, or the School of Theatre for details.

Departmental Applications. Departmental applications are required of all applicants wishing to major in communication; communication sciences and disorders; education; motion picture, television, and recording arts; or nursing. In addition to submitting the application for admission and other supporting information, prospective students should contact the College of Communication; the College of Education; the School of Motion Picture, Television, and Recording Arts; or the School of Nursing for details.

Florida College Level Academic Skills Test (CLAST). The Florida CLAST is an achievement test of the communication and computation skills expected of all students by the time they complete their sophomore year of college. All students, including transfer students and international students, are required by Florida statutes and rules of the State Board of Education to satisfactorily complete the Florida CLAST or an approved alternative to the CLAST before the granting of admission to upper-division status at The Florida State University. It is the responsibility of the applicant to have Florida CLAST scores forwarded to the University. International students seeking

a waiver from CLAST should refer to 'Minimum Criteria for Eligibility for CLAST Waivers in the Communications Area for Non-native English Speaking Students' in "Undergraduate Degree Requirements" for more details. Transfer students admitted directly to baccalaureate degree programs who have not completed or exempted the Florida CLAST must register for and take the Florida CLAST prior to or during the first term of enrollment. Refer to the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for more details.

Deadlines for Applications and Supporting Documents for Transfer Students

Spring semester 2004	November 3, 2003
Summer semester 2004	March 1, 2004
Fall semester 2004	July 1, 2004

The University reserves the right to close transfer admissions earlier if warranted by enrollment limitations and the number and quality of the applications.

International students should refer to the 'International Student Admission' section of this chapter.

General Admission Requirements

Applicants who have received an associate in arts (AA) degree from a Florida public institution **immediately prior to transfer** and who have applied to a nonlimited access program will be admitted to The Florida State University, provided an application and all supporting documents have been received by the deadline. This includes verification of two (2) sequential units of the same foreign language in high school or at least eight (8) semester hours of the same foreign language (or equivalent proficiency as demonstrated by passing AICE, AP, IB, or CLEP examinations) at the college level. Admission to the University is not guaranteed to programs designated as limited access or teacher certification, or to those programs requiring auditions.

Applicants With Less Than Sixty (60) Semester Hours of Transferable Credit (As Evaluated by the Office of Admissions) Must:

1. Meet The Florida State University freshman criteria for high school academic grade point average, academic units, and test score (refer to the 'Freshman Admission Requirements' section of this chapter);
2. Have at least a 2.5 (on a 4.0 scale) grade point average (GPA) on all college work attempted;
3. Have at least a 2.5 (on a 4.0 scale) GPA on all college work attempted at the last institution attended, if more than one institution is attended; and,
4. Have satisfactorily completed the Florida CLAST or an approved alternative to the CLAST (refer to the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for more details).

Applicants With Sixty (60) or More Semester Hours of Transferable Credit (As Evaluated by the Office of Admissions) Must:

1. Have at least a 2.5 (on a 4.0 scale) grade point average (GPA) on all college work attempted;
2. Have at least a 2.5 (on a 4.0 scale) GPA on all college work attempted at the last institution attended, if more than one institution is attended;
3. Have verification that two (2) sequential units of the same foreign language have been successfully completed in high school or that at least eight (8) semester hours of the same foreign language (or equivalent proficiency as demonstrated by passing AICE, AP, IB, or CLEP examinations) have been completed successfully in college. Verification is by an official transcript or score report; and
4. Have satisfactorily completed the Florida CLAST or an approved alternative to the CLAST (refer to the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for more details).

Teacher Education Programs

All students planning to pursue a teacher education program at The Florida State University must be formally admitted to teacher education. Admission to a teacher education program is administered by the Dean of the College of Education and assigned to the Office of Academic Services, 108 Stone Building. Application for admission to a teacher education program is distinct from admission to an upper-division college or school and is made in the Office of Academic Services, 108 Stone Building.

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

1. Have at least a 2.5 (on a 4.0 scale) grade point average (GPA) on all college work attempted; and
2. Have a grade of "C-" or better in each required general education English and each general education mathematics course; and
3. Take and achieve a passing score on all sections of the Florida CLAST (**this requirement cannot be waived or met by alternative means**).

Note: there is no longer a required minimum composite score on the **ACT** or **SAT** for admission to teacher education. However, programs with limited enrollment status may require submission of the score, and may use that score in determining which students will be admitted.

The following curriculum requirements must be completed prior to entry into the degree program (upper-division):

1. Forty-five (45) semester hours in teacher preparation general education core curriculum (see the "College of Education" chapter of this *General Bulletin* for specific requirements). **Students should consult with an advisor to determine how to simultaneously satisfy the thirty-six (36) semester hours in liberal studies and the teacher preparation general education core curriculum requirements.**

2. State of Florida Common Course Prerequisites which include: a) three (3) education core courses of EDF 1005, EDG 2701, and EME 2040; and b) fifteen (15) semester hours of general program prerequisites specified for each degree program (see degree program sections for specific prerequisites). **Note:** in addition to EDG 2701, students must take six (6) additional hours with an international or diversity focus. These may be satisfied as part of the University multicultural requirement.

Common prerequisites and total program length 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, and State Board of Education Rule 6A-5.066, Approval of Preservice Teacher Preparation Programs.

Limited Access Programs

A limited access program utilizes selective admission to limit program enrollment. Limited access status is justified where student demand exceeds available resources (student/faculty ratios, instructional facilities, equipment, or specific accreditation 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 community/junior colleges, AA degree transfers from other state universities in Florida, and rising juniors at The Florida State University.

Limited access programs fall into three (3) major categories: performing and visual arts, teacher education, and limited enrollment.

Performing and Visual Arts

- Dance (audition required for all majors)
- Interior Design (departmental interview and minimum GPA)
- Music (audition required for all majors)
- Theatre (audition required for BFA degree program)
- Visual Arts (portfolio review for BFA degree program)

Limited Enrollment Programs Requiring a Higher Grade Point Average

Admission to these undergraduate degree programs requires a cumulative GPA above the level of 2.0. The specific GPA minimum for each program is determined annually on the basis of student spaces available and the number and quality of applications for those spaces. For specific requirements for admission to a particular department, college, or school, refer to the appropriate section of this *General Bulletin*.

Limited enrollment programs at The Florida State University include the following:

- College of Arts and Sciences
 - Computer and Information Science (all majors)
 - Psychology
- College of Business (all majors)
- College of Communication (all majors)
- College of Education
 - Early Childhood Education
 - Elementary Education
 - Emotional Disturbances/Learning Disabilities
 - Mental Disabilities
 - Recreation and Leisure Services Administration
 - Visual Disabilities
- School of Motion Picture, Television, and Recording Arts
- School of Nursing
- College of Social Sciences
 - Economics (all majors)
- School of Theatre (see below)
- School of Visual Arts and Dance
 - Interior Design

Categories of Limited Access Programs

- ** = Limited access and limited enrollment (capped)
- *** = Communication Sciences and Disorders has Teacher Education standards
- + = Limited access and limited enrollment (capped) by specialized accreditation or licensure requirement
- ++ = Limited access and limited enrollment by audition or portfolio review (special talent)

Degree Programs

- Accounting**
- Business Administration**
- Communication**
- Communication Sciences and Disorders***
- Computer and Information Science**
- Dance++

Early Childhood Education**
 Economics**
 Elementary Education**
 Emotional Disturbances/Learning Disabilities**
 Finance**
 Graphic Design++
 Hospitality Administration**
 Interior Design**
 Management**
 Management Information Systems**
 Marketing**
 Mental Disabilities**
 Motion Picture, Television, and Recording Arts++
 Multinational Business**
 Music Composition++
 Music Education**
 Music History and Literature++
 Music, Liberal Arts++
 Music Performance++
 Music Theory++
 Music Therapy++
 Nursing+
 Psychology**
 Real Estate**
 Recreation and Leisure Services Administration+
 Risk Management/Insurance**
 Visual Disabilities**
 Bachelor of Fine Arts in Theatre:
 Majors in Acting, Design/Technology, and Musical Theatre++
 Bachelor of Arts in Theatre**
 Bachelor of Fine Arts in Studio Art++

Transfer Scholarships

Associate in Arts (AA) degree recipients from Florida public community/junior colleges who enroll directly at the University and who display high academic achievement are awarded academic scholarships on a competitive basis by The Florida State University. Applicants with cumulative grade point averages of at least 3.8 will be automatically considered.

International Student Admission

Applicants to The Florida State University are considered international if they are not U.S. citizens, dual citizens, or Permanent Resident Aliens.

International applicants must provide the Office of Admissions with the following:

Application for Admission. The completed International Application for Admission and a non-refundable application fee of \$20.00 in U.S. cur-

rency must be submitted. The check or money order must be drawn on a U.S. bank and made payable to The Florida State University. The application will not be processed without the application fee and under no circumstances will the University waive or postpone this fee.

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 an 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 accompanied by certified English translations.

Test Scores. Results from the ACT or SAT I are required of all freshman applicants and all transfer applicants who have less than sixty (60) semester hours of transferable credit (as determined by the Office of Admissions after a course-by-course evaluation has been submitted) or who require exemption from the Florida CLAST. Arrangements should be made for the test results to be forwarded directly to the Office of Admissions from the American College Testing Program or College Board.

English Proficiency Test. If an applicant's native language is not English, the applicant must take the Test of English as a Foreign Language (TOEFL). A minimum score of 550 on the paper-based test or 213 on the computer-based test is required. TOEFL scores are considered official only when they are sent directly to the Office of Admissions from the Educational Testing Service.

Certification of Financial Responsibility. Certification of finances must be completed before the Certificate of Eligibility (Form I-20 or DS-2019) is issued. The University is required by immigration authorities to verify the financial resources of each student 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 available for the entire period of enrollment.

The Certification of Financial Responsibility form must be completed, signed by the sponsor and the applicant, and verified by the sponsor's bank or financial institution. The total amount of funds available to the student must be listed for each year of planned attendance and must equal the total estimate of annual costs.

Auditions. Auditions are required of all applicants wishing to major in music, dance, or the bachelor of fine arts (BFA) degree program in theatre. In addition to submitting the application for admission and other supporting information, prospective students should contact the School of Music, the Department of Dance, or the School of Theatre for details.

Departmental Applications. Departmental applications are required of all applicants wishing to major in motion picture, television, and recording arts and all transfer applicants wishing to major in communication, communication sciences and disorders, education, or nursing. In addition to submitting the application for admission and other supporting information, prospective students should contact the College of Communica-

tion; the College of Education; the School of Motion Picture, Television, and Recording Arts; or the School of Nursing for details.

Florida College Level Academic Skills Test (CLAST). Refer to the "Admissions by Transfer" section of this chapter.

Transfer 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 one of the foreign educational credential evaluation services listed in the International Brochure or found at <http://admissions.fsu.edu/intl/transfer.htm>.

Deadlines for Applications and Supporting Documents for International Students

Freshmen (first-time-in-college and undergraduate transfer applicants with less than twelve [12] semester hours of transferable credit as determined by the Office of Admissions after an evaluation has been submitted):

Spring semester 2004	November 3, 2003
Summer semester 2004	March 1, 2004
Fall semester 2004	March 1, 2004

Transfers (applicants with twelve [12] or more semester hours of transferable credit as determined by the Office of Admissions after an evaluation has been submitted):

Spring semester 2004	September 1, 2003
Summer semester 2004	February 1, 2004
Fall semester 2004	May 1, 2004

The University reserves the right to close freshman and transfer admissions earlier if warranted by enrollment limitations and the number and quality of applications.

Admission Requirements

Freshmen

Admission to The Florida State University requires graduation from a recognized secondary program with certain academic units, an overall performance average in those academic units, and appropriate ACT or SAT I scores. Four (4) units of English, three (3) units of mathematics (algebra I level and higher), three (3) units of natural science, three (3) units of social science, and two (2) sequential units of the same foreign (non-English) language are required. A unit is the equivalent of a yearlong subject that is not remedial in nature. Applicants from non-English speaking countries must also present a minimum TOEFL score of 550 on the paper-based test or 213 on the computer-based test. Academic qualifications are described above in 'Academic Qualifications' in the "Admission Requirements" section.

Transfers With Less Than Sixty (60) Semester Hours of Transferable Credit Must:

1. Meet The Florida State University minimum freshman admission requirements of secondary school academic performance (academic courses only), academic units, and test scores;

2. Have at least a “C+” average (2.5 GPA on a 4.0 scale) on all college work attempted;
 3. Have at least a “C+” average (2.5 GPA on a 4.0 scale) on all college work attempted at the last institution attended, if more than one institution is attended;
 4. Submit an official course-by-course evaluation of all academic records from each non-U.S. college and/or university attended(ing);
 5. Submit a TOEFL score of at least 550 on the paper-based test or 213 on the computer-based test if the applicant is from a country where English is not the official language;
- and
6. Have satisfactorily completed the Florida CLAST or an approved alternative to the CLAST (refer to the “Undergraduate Degree Requirements” chapter of this *General Bulletin* for more details).

Transfers With Sixty (60) or More Semester Hours of Transferable Credit Must:

1. Have at least a “C+” average (2.5 GPA on a 4.0 scale) on all college work attempted;
 2. Have at least a “C+” average (2.5 GPA on a 4.0 scale) on all college work attempted at the last institution attended, if more than one institution is attended;
 3. Submit an official course-by-course evaluation of all academic records from each non-U.S. college and/or university attended(ing);
 4. Verify that two (2) sequential units of the same foreign (non-English) language have been completed successfully in high school (secondary program) or at least eight (8) semester hours of the same foreign (non-English) language (or equivalent proficiency) have been successfully completed at the university level (required if the applicant is from a country where English is the official language);
 5. Submit a TOEFL score of at least 550 on the paper-based test or 213 on the computer-based test if the applicant is from a country where English is not the official language;
- and
6. Have satisfactorily completed the Florida CLAST or an approved alternative to the CLAST (refer to the “Undergraduate Degree Requirements” chapter of this *General Bulletin* for more details).

Applicants who have received an associate in arts (AA) degree from a Florida public institution immediately prior to transfer and who have applied to a nonlimited access program will be admitted to The Florida State University, provided an application and all supporting documents have been received by the deadline. This includes the financial guarantee and verification of two (2) sequential units of the same foreign (non-English) language in high school (secondary program) or at least eight (8) semester hours of the same foreign (non-English) language (or equivalent proficiency) at the university level. Admission to the University is not guaranteed to pro-

grams designated as limited access or teacher certification, or to those programs requiring auditions.

For a number of undergraduate degree programs, access is limited at the junior year to those students meeting certain additional criteria. Limited access programs are described in the previous section, ‘Admission by Transfer.’

Notice of Admission

Formal notification of admission to The Florida State University is sent by the Office of Admissions with the appropriate immigration form. Admission to the University is for a **specific** term. If the student is unable to enroll for the term indicated in the notice of admission, the Office of Admissions should be informed immediately, and the Certificate of Eligibility must be returned. If the student wishes to be considered for entrance to a different term, the Office of Admissions must be advised in writing.

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 must explain the source of funds and guarantee that they will receive funding for the duration of the program. Unless applicants show written evidence of having financial support for the entire time required to complete the degree program, they will not be granted a student visa.

If the student’s government limits the amount of money that may be sent to students in the United States, the applicant should make sure that sufficient funds will be available. When applicants leave their country, they must have enough money to pay for traveling expenses to the University, fees for the entire term, living expenses until more money arrives, and the return fare to their home country. Students must be sure that they will have sufficient financial resources to cover all costs during their stay at the University. 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.

A number of international students arrive at the University without being aware of the amount of money they will need. Students often assume, incorrectly, that additional financial assistance or part-time employment will be available. International students are allowed to work off-campus only in exceptional circumstances. Each year, many students find themselves in serious financial difficulties because they did not arrange for adequate support. **Before making firm plans to come to the United States, international applicants should read the following sections carefully.**

The costs given are estimated minima and are subject to change. The following estimates are based on one academic year (two semesters—fall and spring) and are for an unmarried student with no dependents. Additional funds must be included for spouse or family (\$4,000 for spouse and

\$2,000 for each child per year). Biographical data must be provided for each family member accompanying the student to the United States. The data should include complete name, date of birth, gender, city of birth, country of birth, country of citizenship, country of permanent residence, relationship to the student (wife/husband, son or daughter) and, for students transferring to The Florida State University from another university, each family member’s SEVIS ID number. Approximately one-half of the estimated total amount should be available at the beginning of each semester since University fees must be paid upon registration at the start of each term.

Annual Estimate of Costs for Undergraduate International Students

The annual estimated costs listed below are for the 2002–2003 academic year. Costs for the 2003–2004 academic year were not available at date of publication.

Tuition/Fees ¹	\$12,228.00
Books and Supplies	700.00
Room and Board ²	7,924.00
Insurance ³	508.00
Miscellaneous	2000.00
Total	\$23,360.00

Note:

¹ The tuition and fee estimate is based on fifteen (15) credit hours for an undergraduate international student attending two (2) terms per year. (International students must register for a minimum of twelve hours each term.) It is estimated that an additional \$3,669 will be necessary for tuition and fees if the student will be attending summer school. Contact the Office of Admissions or refer to website <http://admissions.fsu.edu/intl> for the approved 2003–2004 fees.

² Includes annual mid-range costs for on-campus residence halls (does not include Alumni Village) and one of the most popular meal plans. Contact the Housing Office or refer to website: <http://www.housing.fsu.edu> for the approved 2003–2004 rental costs. Contact FSU Dining Services or refer to website: <http://sodexhomarriott.fsu.com> for the 2003–2004 actual costs.

³ All international students who are admitted to the University must maintain a health insurance policy for the duration of their enrollment. Dependents of international students in “J” visa status also are required by federal regulations to have health insurance coverage for the duration of their stay in the United States. Estimated annual health insurance costs: student—\$508; student and spouse—\$2,294; student and child—\$1,152; student and family—\$3,626.

Passports and Visas

International applicants need a current passport from their own government and a visa from the United States 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 United States school before a passport is granted.

To apply for a visa, applicants should take their passport, Certificate of Eligibility (Form I-20 or DS-2019), issued by The Florida State University, and proof of adequate financial support for studies and living expenses to the nearest United States Consulate.

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 United States is available. Undergraduate students holding F-1 or J-1 visas are required to carry at least twelve (12) semester hours each semester.

Health Insurance

The University's Thagard Student Health Center provides basic 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 who will be accompanied by dependents are required to purchase health insurance coverage for them. For more information regarding health insurance, contact the Thagard Student Health Center, (850) 644-4250, <http://www.tshc.fsu.edu>.

International applicants are required to bring a medical history to campus which describes previous illnesses and/or surgery prior to enrollment. If students have ever had tuberculosis (or scars appearing on chest X-rays) or other serious infectious diseases, they must have thorough medical studies made before coming to the University and bring the medical reports from those studies to campus. International applicants must be immunized, and show proof of such immunization, prior to registration.

Intensive English Program

English is the language of instruction and communication at the University. International applicants who lack sufficient English 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. The Florida State University offers such a program through the Center for Intensive English Studies. Detailed information on the center may be obtained at <http://www.fsu.edu/~cies>.

Admission to the Center for Intensive English Studies does not in any way imply that admission to The Florida State University will be approved.

Admission to Graduate Study

Admission to graduate study involves admission to the department, school, 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 minima. The student should determine departmental requirements first and then determine the University admission requirements. Consult the *Graduate Bulletin* for complete details.

Admission to Panama City Campus

Transfer students who have sixty (60) or more semester hours of transferable credit and are interested in attending the Panama City campus should apply directly to: *Office of Admissions, The Florida State University, 4750 Collegiate Drive, Panama City, FL 32405-1020*. Information may also be obtained through their website: <http://www.pc.fsu.edu>.

The same policies, procedures, and requirements that pertain to the Tallahassee campus apply to the Panama City campus.

Readmission

Returning students who 1) have been out of school for two or more consecutive terms (including the summer term); 2) withdrew or canceled their registration during a previous term of attendance; or 3) have been dismissed from the University and have not been enrolled for one term or more (including the summer term), must submit an application for readmission to the readmissions section of the Office of Admissions. This application must be submitted at least sixty (60) days prior to the beginning of the term for which readmission is desired. (Consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines). Readmitted former students are subject to retention requirements in effect at the time of reentrance. Students claiming classification as Florida residents must also reestablish their eligibility for this classification when applying for readmission.

Any student who attempts college work at any institution other than The Florida State University (including correspondence work) must have official transcripts sent to the readmissions section of the Office of Admissions. Official transcripts issued directly to students are not acceptable for evaluation and entrance requirements.

When a student has withdrawn from the University three (3) or more times, subsequent readmission first will be considered by a 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, then will make a recommendation to the dean of the student's college who will make the final decision.

The University reserves the right to refuse 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.

Special (Non-Degree Seeking) Student Regulations

Registration as a special student for undergraduate course work may be approved for any high school graduate and for any postbaccalaureate student provided an application, a nonrefundable \$20.00 fee payable to The Florida State University, and all supporting documents have been received by the deadline; the student was not previously denied undergraduate admission to The Florida State University; and the student is not on academic dismissal from this or any other institution. Students intending to register for graduate course work under the special student status should consult the *Graduate Bulletin* for details.

The special (non-degree seeking) student application may be obtained at <http://admissions.fsu.edu/online>. The application should not be submitted earlier than one semester prior to the term for which registration is desired. The Special Student section in the Office of Admissions reserves the right to return all applications received after the published deadline for a particular term or after any enrollment limit is reached (consult the "University Calendar" chapter of this *General Bulletin* for specific application deadlines.)

Foreign nationals on a student visa may not use the special student status other than to fulfill prerequisite requirements, or for summer enrollment if full-time status has been maintained during the academic year. All other foreign nationals, whether intending degree or non-degree work, must obtain permission from the Office of Admissions.

FINANCIAL INFORMATION, TUITION, FEES, AID, SCHOLARSHIPS AND EMPLOYMENT

Associate Vice-President and University
Controller: Larry D. Reese;
Executive Director, University Financial
Services: Dr. Perry W. Crowell;
Director: Marcia Murphy

General Information

Tuition and fees are collected by the University Controller's Office of Student Financial Services. Payment of registration fees and tuition detailed below is an integral part of the registration process. Academic progress may be stopped and official University documents and services (transcripts, diplomas, registration etc.) withheld if tuition and fees are not paid within the established timeframe listed.

Tuition Payments and Arrangements. The student's web name and password are required to access the Online Billing Statement at <http://www.fees.fsu.edu>. Tuition and fees are due according to the posted deadline at <http://www.sfs.fsu.edu>. Financial aid is disbursed during the second week of the semester, and as received thereafter. We encourage students to submit their third-party agency billings as soon as they have registered for classes. Due by the fifth day of each semester are all third-party agency billings, departmental billings, FSU employee scholarships, state employee tuition vouchers, and Veteran's deferments. Outstanding tuition and charges from a previous semester will be deducted from financial aid received during a current semester, if registration is permitted.

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 Student Assessment Payment Schedule on the Internet at <http://www.fees.fsu.edu> 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 arrangements outstanding. Credit and debit card payments can be made through the Internet at <http://www.fees.fsu.edu>.

Panama City Campus. Students who intend to enroll at the Panama City campus of The Florida State University are to pay their fees at: *Controller's Office, 4750 West Collegiate Drive, (Barron Building, 1st Floor) Panama City, FL 32405.* This office will answer any questions concerning fee payments and financial aid distribution. For further information, please call (850) 644-2090, ext. 175. Inquiries and payments can be made through the Internet at <http://www.fees.fsu.edu>.

Residency Requirements for Tuition Purposes

At The Florida State University there are three offices responsible for the initial review of residency for tuition purposes under Section 1009.21, Florida Statutes, and Florida Board of Governors Rule 6C-7.005. These offices are: 1) The Office of Admissions, 2) Law School Admissions, and 3) the Office of the University Registrar. The first two offices determine residency for all first-time-on-campus students; the Office of the University Registrar is the only office to which students can apply for changes in residency once they are enrolled. First-time-on-campus students will be classified in accordance with the information on their applications, including the "Florida Resident Affidavit" on the last page of the application, providing no other information is available calling into question the information on the application. To qualify as a Florida resident for tuition purposes in accordance with Rule 6C-7.005 of the Florida Board of Governors, students must: be a United States citizen, resident alien, parolee, Cuban national, Vietnamese refugee, or other refugee or asylee so designated by the United States Immigration and Naturalization Service,

And

Have established a legal residence in this state and maintained that legal residence for 12 months immediately prior to the term in which they are seeking Florida resident classification. **Students' residence in Florida must be as a bona fide domiciliary rather than for the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education,** and should be demonstrated as indicated below (for dependent students as defined by Internal Revenue Service regulations, a parent or guardian must qualify),

And

Submit the following documentation (or in the case of a dependent student, the parent must submit documentation) prior to the last day of registration for the term for which resident status is sought (**Note:** the various summer terms are considered one semester for the purpose of establishing residency):

1. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:

- a) Declaration of Domicile.
- b) Proof of purchase of a home in Florida which you occupy as your residence.

c) Proof that the student has maintained residence in the state for the preceding year (e.g., rent receipts, employment records).

2. Documentation establishing bona fide domicile in Florida that is not temporary or merely incident to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these criteria, if taken alone, will be considered as conclusive evidence of domicile:

- a) Declaration of Domicile.
- b) Florida voter's registration.
- c) Florida vehicle registration.
- d) Florida driver's license.
- e) Proof of real property ownership in Florida (e.g., deed, tax receipts).
- f) Verification of employment by the employer, employment records, or other employment-related documentation (e.g., W-2, paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment.
- g) Proof of membership in or affiliation with community or state organizations or significant connections to the state.
- h) Proof of continuous presence in Florida during periods when not enrolled as a student.
- i) Proof of former domicile in Florida and maintenance of significant connections while absent.
- j) Proof of reliance upon Florida sources of support.
- k) Proof of domicile in Florida of family.
- l) Proof of admission to a licensed practicing profession in Florida.
- m) Proof of acceptance of permanent employment in Florida.
- n) Proof of graduation from high school located in Florida.
- o) Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual.

3. No contrary evidence establishing residence elsewhere.

4. Documentation of dependent/independent status (copy of Internal Revenue Service tax return). **Note:** federal income tax returns filed by resident(s) of a state other than Florida disqualify such students for in-state tuition, unless said student's parents are divorced, separated, or otherwise living apart and either parent is a legal resident of Florida.

Or

Become a legal resident and be married to a person who has been a legal resident of the state of Florida for the required twelve-month (12) period,

Or

Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent,

Or

Be a member of the full-time instructional or administrative staff of a state public school, community college, or university in Florida, or a spouse or dependent,

Or

Be a dependent and have lived five years with an adult relative who has established legal residence in Florida,

Or

Be a person who was enrolled as a Florida resident for tuition purposes at a Florida institution of higher education, but who abandoned Florida residency and then reenrolled in Florida within 12 months of the abandonment,

Or

Be a Latin American/Caribbean scholar,

Or

Be a United States citizen living on the Isthmus of Panama and have completed twelve (12) consecutive months of college work at FSU—Panama, or a spouse or dependent,

Or

Be a graduate student of the Southern Regional Education Board's Academic Common Market attending Florida's state universities,

Or

Be a full-time employee of a state agency or political subdivision of the state when student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training,

Or

Be a qualified beneficiary under the Florida Pre-Paid Post-secondary Expense Program per Section 1009.98(b)1, Florida Statutes,

Or

Be a McKnight Fellowship Recipient,

Or

Be an active member of The Florida National Guard who qualifies under Section 1009.21, Florida Statutes, for the tuition assistance program,

And

Make a statement as to the length of residence in Florida and qualification under the above criteria. Students wishing to change from out-of-state

to in-state residency for tuition purposes shall apply to the appropriate admissions office if they have not yet enrolled, or to the University Registrar if they are already enrolled.

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.

Assessment of Fees

The following fees and charges are based on proposed rates; however, since the *General Bulletin* must be published in advance of its effective date, it is not always possible to anticipate changes, and the fee schedule may be revised. Every effort will be made to publicize changes for any semester in advance of the registration date for that semester. Current information is available on the Internet at the "Money Matters" section of <http://www.studentsfirst.fsu.edu>.

Students are assessed fees based on the level of the course as established by the State Board of Education and the Florida State Legislature. Rates applicable to the main campus for fall term, 2002, and spring and summer terms, 2003, are used as a basis for estimating course charges per credit hour for Florida and non-Florida residents. **Fees applicable to 2003–2004 had not been confirmed by the Florida Legislature at the time of the publication of this document.**

Actual Course Fee Charge Per Credit Hour 2002–2003 Schedule

Course Level	Florida Students	Non-Florida Students
Undergraduate	\$ 84.58	\$402.71
Graduate	\$178.26	\$670.92
Law	\$199.43	\$712.59
Repeat Course Fee per credit hour (undergraduate only)	\$177.42	\$177.42

Note: course fees may vary depending upon course location.

Students enrolled in cooperative education courses with zero (0) semester hours will be charged for one (1) semester hour of Florida resident undergraduate work, unless also enrolled in other credit courses at The Florida State University during the same academic term.

Students registered in courses for zero (0) semester hours (master's comprehensive examination, master's thesis defense, dissertation defense, or other graduate-level zero [0] semester hour courses) will be charged for one (1) Florida resident graduate semester hour, unless also enrolled in other credit courses at The Florida State University during the same academic term.

Special Fees, Fines, and Penalties

(All fees subject to change)

Application Fee: \$20.00. Applicants for admission are assessed a nonrefundable application fee.

New Student Orientation Fee: \$25.00. This fee is assessed when new students register to attend the required University orientation program. This is a nonrefundable fee.

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. (Rate subject to change.) 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*).

Florida State University Identification Card (FSUCard): \$10.00. This fee is assessed against first-time FSUCard recipients, including high school students. This fee may be paid when tuition is paid.

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: \$5.00. 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: \$4.90 per credit hour. 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://www.vpfa.fsu.edu/parking>.

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 a student's account who has a check or electronic authorization for payment returned by the bank to The Florida State University. The 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 The 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 The 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. The Florida State University places a hold on accepting any personal checks or electronic payment authorizations from anyone on the student's account for ninety (90) 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 department's 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 The 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 (7) working days with cash, money order or cashier's check. The 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 and Dissertation Fees: A graduate student submitting a thesis or dissertation is assessed a binding fee at cost (extra charge for oversize copies). In addition, doctoral students submitting a dissertation are assessed a microfilming fee and may pay a copyright fee, if desired.

Binding Fee: At cost.

Microfilming Fee: At cost.

Copyright Fee: Optional, 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 which is used to offset the cost of scientific materials or items that are consumed in the course of the students' laboratory activities. These fees are assessed based on the course.

Library Fees

Fines for Late Return: (per book or unit, per day): \$0.25. A fine for the late return of a library book will be assessed against students as well as graduate teaching assistants and associates who do not return library books by the due date.

Fines for Overdue Reserve Library Books: (per book, per library hours): \$0.25.

Fines for Failure to Respond to a "Recall Notice" (per book or unit, per day): \$0.25. A fine for the failure to respond to a "recall notice" will be assessed against students, graduate teaching assistants and associates, and faculty who do not return library books by the recall due date specified in the notice.

Housing Costs

For complete descriptions of housing facilities, services, costs, and how to apply 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 2002–2003 academic year. Costs for the 2003–2004 academic year were not available at date of publication.

Undergraduate	(In-state)	(Out-of-state)
Tuition and Fees+	\$2,684	\$12,228
Housing *	3,134	3,134
Food #	2,494	2,494
Books	700	700
Total	\$9,012	\$18,556

+ The tuition and fee estimate is based on fifteen (15) semester hours for an undergraduate student attending two (2) terms (fall and spring) per year. Contact the Office of Admissions or refer to website <http://admissions.fsu.edu/costs> for the approved 2003–2004 fees.

* Annual mid-range cost for on-campus residence halls. The range is \$2,910–\$4,410. Contact the Office of University Housing or refer to website <http://www.housing.fsu.edu> for the approved 2003–2004 rental rates.

Allows students up to fifteen (15) meals per week. Other annual options range from \$2,033–\$2,789; these figures are subject to change. Contact FSU Dining Services or refer to website at <http://sodexhomarriott.fsu.com> for the 2003–2004 actual costs.

Note: international students should refer to the "Admissions" chapter of this *General Bulletin* for an estimated cost of attendance.

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 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, including those receiving financial aid, must be submitted by the fifth day of the term. If tuition is not paid or arrangements have not been made by the posted deadlines, a late payment will be assessed. The University does not send out a bill. Students can, however, get the amount of their tuition and fees due on the Internet at <http://www.fees.fsu.edu> or when they register for classes by telephone or through the web. Other options include kiosks located on the first floor of *University Center A Building* and second floor of *Union-Krentzman Lounge*, by calling (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. The Florida State University does not accept two party checks or foreign checks for payment. Make checks payable to The Florida State University and include the student's social security number, local phone and address on each check. We accept FSUCards, American Express, Discover, MasterCard and electronic checks via internet only. Visa has elected not to participate in our web payment service. Payment methods are described below. Credit card payments can only be made through the Internet at <http://www.fees.fsu.edu> or at kiosks located around campus. There is a convenience fee for the online payment option.

Automated Debit to FSUCard for Tuition Payment. The Florida State University offers a free online payment service to students with FSUCard accounts at SunTrust for the payment of tuition and fees, and other University charges. Students may authorize charges to be deducted from their FSUCard bank account by going to the online billing feature at <http://www.fees.fsu.edu> and clicking on the option: "Would you like information about automatic debit payment from your FSUCard?" This payment option is available for a limited time during Fall and Spring semesters, and certain restrictions are applied. Additional information is available on the Internet.

Installment Contracts. Students incurring tuition fees greater than \$150.00 are eligible to execute an installment fee payment agreement for the fall and spring semesters (not available for summer semesters). The initial payment, which must be one half of the total tuition, plus a \$10.00 fee (subject to change), is due by the tuition payment deadline. The second half of the installment payment is due by the sixth week of class, as specified on

the agreement. This option is not available on the Internet. 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. Students should appear in person to initiate the installment agreement. A \$10.00 fee (rate subject to change) will be assessed at the time of first payment for this option. Once an installment contract is executed, any course added at a later date must be paid in full within five (5) 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. Installment contracts may be initiated through the mail or drop box, with a letter attached requesting the installment contract and the \$10.00 fee included with the first installment.

Convenient Drop Box for Payments. The Office of Student Financial Services has kiosks for student use at the first floor of the University Center Building A, near our offices at A1500, and in the Krentzman Lounge at the Student Union. 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 cashiers 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 close of business on the tuition payment deadline will not be considered late. Please do not deposit cash. We will not process foreign checks or two party checks. Make checks payable to Florida State University and write your social security number, current address and phone number on the check. Checks not completed properly will be considered late.

Mail-In Fee Payments. When paying fees by mail, send a personal check, money order, or cashiers check for the full amount of fees due. Please do not send cash. We will not process foreign checks, checks not completed properly, or two-party checks. Payments must be received no later than the tuition payment deadline. Make checks payable to Florida State University and write your student identification number, current address and phone number on the check. Checks not properly completed will be considered late. Payments should be mailed to *The Florida State University, Office of Student Financial Services, A1500 University Center, Tallahassee, FL 32306-2394.*

Agency Billing. Students are responsible for all tuition and fees upon registration. Forms are available at <http://www.sfs.fsu.edu>. Students who are requesting their tuition paid by an agency must submit the required documents as soon as possible, but no later than the fifth day of the semester, and preferably thirty (30) days in advance. Those students receiving financial aid should submit the documents by the fourth 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 Financial 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.) Outstanding tuition and charges from a previous semester will be deducted from financial aid if permitted to register. Agencies that do not pay in a timely manner may cause the Office of Student Financial 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 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 Financial Services does not bill agencies for housing, books, meals, etc.

Department Billing. Department billings must be submitted to the Office of Student Financial Services by the appropriate college or school as early as possible and preferably by the fourth day of each semester, but definitely no later than the fifth class day of the 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 department billings, undergraduate students should contact the Dean of the Faculties at 644-3375; graduate students should contact the Dean of Graduate Studies at 644-3500.

State Employee Registration

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 seeking students. The Florida State University does not consider the following as space-available courses: limited access programs; remedial courses; dissertation, thesis, and directed individual study (DIS) courses; internship courses; distance learning courses; Center for Professional Development (CPD) courses; College of Medicine courses; College of Law courses; all graduate program courses in the College of Business; and other one-to-one instruction courses. Accordingly, state employee tuition waivers may not be used for these courses.

The Florida State University accepts only the official FSU State Employee Tuition Waiver Form. Agencies may require additional paperwork or forms that will not be accepted 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 the University Registrar **on the fifth day of classes only**. State employee tuition waivers may not be used for any course that is registered for prior to this space-available registration window. Thus, for any class obtained prior to the fifth day of classes, the student assumes personal financial liability for tuition.

Additional restrictions and deadlines apply. See the Office of the University Registrar's website at http://registrar.fsu.edu/services/emp_tuit_waive for additional information including the link to download the State Employee Tuition Waiver Form.

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. The **primary plan excludes local fees** (i.e., health, athletics, student activity, laboratory, transportation access, and books) which are to 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 going to <http://www.fees.fsu.edu>. The fees (SBOE approved 02/03 fees), excluding books, not covered by the Prepaid College Program total approximately \$18.45 per hour, plus lab fees ranging from \$3.25 to \$35.00, plus the Transportation Access Fee. **Students using the Florida Prepaid College Program are responsible for paying local fees by the tuition payment deadline of the main campus semester or they will be assessed a \$100 late payment fee. (Rate subject to change.) Fees applicable to the 2003–2004 academic year had not been confirmed by the Florida Legislature at the time this document was published.** Additional information may be obtained by writing: *Florida Prepaid College Program, P.O. Box 6448, Tallahassee, FL 32314-6448* or by calling 1-800-552-4723 or <http://www.fsba.state.fl.us/prepaid>.

Fee Liability

Liability is incurred for all credit hours remaining on a student's schedule at the close of the official drop/add period each semester. 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 under FSU forgiveness which are fee liable. Undergraduate level courses are numbered 1000 to 4999.

Effective Fall 2002 Semester, the repeat course surcharge was \$177.42 per credit hour.

(Subject to change for academic year 2003–2004).

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;
- Excludes 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.

Delinquent Fees

Students who have amounts owed to the University may not complete their registration, participate in graduation ceremonies, receive a diploma, receive an associate in arts certificate, or receive a transcript until all amounts owed to the University have been satisfactorily settled. This includes 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. Non-refundable collection fees are added to a student's account if the student has had an outstanding debt for 120 days or longer.

Registration Stop for Outstanding Charges

A "stop" is placed on the registration of all students who have outstanding charges due to the University. Students owing any amount, 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.

Tuition Waivers

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:

1. 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;
2. Foreign student programs, or student exchange programs;
3. Students having special skills in music, dance, theatre, or athletics; and,
4. 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 Dean of the Faculties, graduate students should contact the Dean of Graduate Studies.

Florida Residents Over 60 Years of Age

When registering to audit courses not for credit, all fees are waived for citizens 60 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 "Office of the University Registrar" chapter of this *General Bulletin*.

Policy Concerning Late Fees

A student may request a waiver of the late registration fee at the Office of the University Registrar. 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 Financial 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 or not applying for financial aid on time is not a valid reason for waiving the late fee. Request to waive late fees must be made by completing a waiver request form. If the request is denied, the student may appeal to the Late Payment Fee Appeals Committee by contacting the Office of Student Financial 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 Financial 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. The attendance of the student is recommended. Forms are available through the Internet at <http://www.sfs.fsu.edu>.

Deferments and Financial Arrangements

Financial aid is disbursed during the second week of the semester. Students must pay, or make arrangements to pay, all fees due by the end of 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 billings are to be completed by the student at *A1500 University Center* no later than the fifth 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 available through the Internet at <http://www.sfs.fsu.edu>.

Veterans' Deferments. A student in training under the auspices of the Veterans' Administration receives an education and training allowance each month from the federal government. Since the first subsistence checks are sometimes delayed, it is advisable for the veteran to be prepared to meet all expenses for about two months.

Tuition and health fees for students receiving assistance from the Veterans' Administration in accordance with provisions of Section 1009.27(2), Florida Statutes, may be deferred each time there is a delay in the receipt of benefits. This deferment is not automatic and must be explicitly requested by eligible students, through the Office of Veterans' Affairs, Office of the University Registrar, by the fifth day of the semester. Students with financial aid pending will have their tuition paid by their financial aid and will have their veteran's deferments nullified.

Note: if a student receives a veterans' deferment and tuition is still not paid by the deferment expiration date, the student will be assessed a \$100.00 late payment fee and will not be eligible to receive a veterans' deferment in the future. Registration, transcripts and diplomas will not be processed until debts are paid in full.

Application Fee

Individuals who make application to The Florida State University shall pay a nonrefundable application fee of \$20.00. This fee may be waived for applicants who can document that they have received a fee waiver because of economic need as determined by the College Board or the American College Testing Program.

Refund of Fees

Regulations Concerning Refunds of Fees Paid

A student incurs a liability for all credit hours that remain on the student's 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.** At the beginning of a semester, refunds will not be processed until the end of the third week of class to ensure that all checks have cleared the bank. 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. The refund will be processed as a credit to the student's FSUCard account for currently enrolled students, unless the student requests a check to be mailed to the address on file. However, payments made by credit card will be refunded to the credit card. Checks will be mailed to those students who are no longer enrolled. Refund request forms are available at the Office of Student Financial Services, A1500 University Center or online at <http://www.vpfa.fsu.edu/control/forms/printonly/mp371.pdf>.

Students who withdraw after the fifth 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 [25%] of the term) are eligible for a twenty-five percent (25%) 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.' In the case where a withdrawal petition is approved, a refund only can be provided if the refund withdrawal request is submitted within six (6) months after the end of the semester/term in which the withdrawal occurred.

An application for a request for refund of fees should be submitted as follows:

Tuition Fees. *Office of Student Financial Services, A1500 University Center. <http://www.sfs.fsu.edu>.*

Food Plan. *Director of Food Services, 144 Oglesby Union.*

Housing Fees. *Director of Housing, 109 Student Life Building.*

Parking Decals. *Director of Parking, C2300 University Center.*

Textbooks. *Manager of Florida State University Bookstore, Parking Garage, Main Level.*

Withdrawal and Return of Financial Aid

Effective Fall 2000, students who withdraw and have received financial aid will be required to repay to the program source the amount of **unearned** financial aid funds disbursed to them as of their withdrawal date. Programs include Pell Grants, Perkins Loans, Supplemental Educational Opportunity Grants (FSEOG), Stafford Loans (subsidized and unsubsidized), and Parent Loans (the Federal PLUS program), and other awards. The **unearned** amount of program funds is calculated based on the percentage of the semester completed before the date of withdrawal. Both the University and students receiving financial aid are required to return **unearned** financial aid to the aid source. 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 educationally-related expenses assessed by the institution. The funds returned to the aid source by the University will be credited against the student's total liability of **unearned** funds. However, students will owe the University the amount returned to the aid source for institutional charges.

Students must repay the unearned Title IV funds to any Title IV loan program in accordance with the terms of the loan. For Title IV loan programs, **unearned** grant program funds are considered overpayments and students are required to return 50 percent of the grant. Students who owe grant overpayments remain eligible for Title IV program funds for forty-five (45) days if during those forty-five (45) days the student: 1) repays the overpayment in full to the University; or, 2) enters into a repayment agreement with the University. However, 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. **Students should consider their repayment responsibilities for these programs as part of any**

withdrawal decision. Students should contact the Florida Bright Futures office for the most current restrictions on eligibility.

Student Cancellation of Schedule

A student may cancel registration during the first five days of a semester or summer session by submitting a written request to the Office of the University Registrar, A3900 University Center or to Withdrawal Services, A4300 University Center. Students who cancel their registration within this time frame are not liable for tuition; if tuition has been paid, such students should request a full refund of fees. Beyond the fifth day of the semester a student cannot voluntarily cancel registration but must apply for withdrawal from the University. Students who cancel their registration and are not enrolled for the following term (not enrolled for two consecutive terms) must apply for readmission.

Financial Aid

Director, Office of Financial Aid: Darryl Marshall

General Information

The 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 demonstrated financial need in the form of grants, work awards, 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. Students are urged to begin investigating the following avenues of help promptly:

A brochure, *Financial Aid at Florida State University* (updated yearly), is included in the financial aid packet. This brochure explains the requirements and processes of application for financial aid. It may be obtained by writing *The Florida State University, Office of Financial Aid, A4400 University Center, Tallahassee, FL 32306-2430*, or by calling (850) 644-0539. Information on financial aid is also available on our website at <http://www.fsu.edu>.

Help in completing the financial aid forms is available from professional financial aid counselors located in the University Center and at workshops held regularly during the month of January on campus and periodically at other locations in the greater Leon County area.

To obtain information on financial aid and the status of their application, students may access their status online via the website at <http://www.studentsfirst.fsu.edu>. Access is also available through <http://www.fsu.edu> or by calling the Express Telephone System (ET) from 8:00 a.m. through 6:00 a.m. (22 hours per day) at (850) 644-0539. The hours of operation for the Office of

Financial Aid are 8:30 a.m. to 5:00 p.m., Monday through Friday. Counseling is available by phone or at the information center Monday through Friday, 8:30 a.m. to 5:00 p.m.

The **Student Aid Resource (STAR) Center**. A complete description of the center's services follows under 'Additional Sources of Financial Aid.'

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 West Collegiate Drive, Panama City, FL 32405.*

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). Students who have previously completed a baccalaureate degree may not be eligible for all types of aid when seeking a second undergraduate degree.

Graduate Students

Graduate students may apply for federal loans and federal work-study by completing the Free Application for Federal Student Aid (FAFSA). Graduate fellowships and assistantships are awarded through the Office of Graduate Studies and Research, and the respective academic departments.

Deadlines

The federal financial aid application period for the 2003–2004 year begins January 1, 2003, and ends June 30, 2004. Some federal and institutional grant funds and federal work-study funds are limited, so students are encouraged to apply as soon as possible after January 1, 2003. The Florida State University priority deadline is February 15, 2003. Students may still apply after this date, but some program funds may be exhausted. Estimated student/parent tax data is allowed for completion of the FAFSA document. The University requires a separate application for Summer financial aid, which may be obtained from the Office of Financial Aid.

Students may apply for the Florida Student Assistance Grant (FSAG) by submitting the FAFSA.

Financial Aid Application Process

To apply for federal, state and institutional aid at The Florida State University, students must complete the Free Application for Federal Student Aid (FAFSA). Students are encouraged to apply directly over the Internet by accessing the following web page <http://www.fafsa.ed.gov>.

Internet applications can be completed from any home computer with secure Internet access, or through Internet capable computers in many libraries and schools. Students in the Tallahassee area may use computers at The Florida State University to submit their application. Continuing students have access to various computer labs

on campus. Prospective students may use computer terminals located in the Office of Financial Aid's Information Center. Paper applications are available from any high school or post-secondary school.

Whether a student applies with a paper or an Internet application, the following materials will be necessary to complete the data required:

1. The student's social security card and driver's license;
2. W-2 forms or other records of income earned;
3. Student's and student's spouse's (if married) Federal Income Tax Return (estimated figures are acceptable for application before filing of return);
4. If the student is required to file as a dependent student, Federal Income Tax Returns for both student and parents are required. Estimated figures are acceptable for applications completed before filing of tax return;
5. Records of other untaxed income received, such as welfare benefits, social security benefits, TANF, veteran's benefits, military or clergy allowances;
6. Current bank statements and records of stocks, bonds and other investments;
7. Business or farm records, if applicable; and
8. Student's alien registration card, if student is not a U.S. citizen.

Note: students may apply for financial aid before applying for admission to The Florida State University, but while early application for aid is recommended (as soon as possible after January 1) a student can not be awarded aid until he/she is officially accepted for admission to The Florida State University.

Loan Entrance Counseling Sessions

Federal regulations require all students receiving a Federal Stafford/Unsubsidized Stafford Loan or Federal Perkins Loan to participate in a loan entrance counseling session prior to receiving the first distribution of the loan. No Federal Stafford loan or Federal Perkins loan can be disbursed until this requirement is met.

A student accepting a loan award for the first time at The Florida State University can complete the loan entrance requirement by accessing The Florida State University Office of Financial Aid web page at <http://www.finaid.fsu.edu> and clicking on the loan entrance counseling link. This will connect the student with an official loan entrance counseling site, where the required information will be covered. 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 completion confirmation page to retain for their records. Students who prefer an alternative format, or who have questions about loans or the loan entrance counseling information process may contact the Office of Financial Aid.

Fees and Financial Aid Students

The University distributes aid in two ways for all registered financial aid students whose funds are available to the Office of Student Financial Services. Students must complete a Disbursement Authorization Statement (DAS) choosing one of the following two ways to receive financial aid:

1. By Electronic Funds Transfer (EFT) to your FSUCard Account at Sun Trust. Approximately 80% of the student body receiving financial aid at FSU have chosen to process their aid electronically and take advantage of the latest technology in banking services; or
2. By a check mailed to your local address. It is the student's responsibility to keep his or her address record current with The Florida State University. Checks are not forwarded by the post office.
3. **Exceptions:**
 - a. Students who have a hold on their funds must clear it by the posted deadline. Loans must be returned to the lender within twenty (20) days of receipt. The University will make every effort to contact students by phone and e-mail. Students whose aid has not been processed by the end of the second week of the term should contact the Office of Student Financial Services at sfs@admin.fsu.edu or in person at A1500 University Center. In order to receive aid, a student must be enrolled for the required number of hours; and
 - b. Students whose financial aid has not arrived by the beginning of the semester should receive a tuition deferment if application was made by August 1 of each year. After the initial distribution dates at the beginning of the semester, additional funds that become available will be disbursed daily and mailed or sent to the FSUCard account in accordance with the selection made on the student's Disbursement Authorization Statement (DAS).

All financial aid students must check their financial aid status at <http://www.fees.fsu.edu> or by calling (850) 644-0539 on the scheduled call-in date. If their online billing statement says they have a deferment or their tuition has been paid, they do **not** need to come to the Office of Student Financial Services. Students required to clear a financial aid hold should report to the Office of Student Financial Services, A1500 University Center, on the published dates and times.

Note: if you cannot get through using this phone number or on the Internet, or if you need a financial aid deferment, you should report to the Office of Student Financial Services, A1500 University Center on the dates as posted. Please do not get this date confused with your telephone call-in date.

Your message will not appear in your voice mail box until the call-in date. After entering your social security number and your registration PIN, follow the voice instructions.

Failure to confirm that financial aid has been processed by the deadline may result in a late payment fee assessment of \$100.00. (Rate subject to change.) There is a message for those students who have chosen to have their financial aid processed using EFT and their FSUCard account. This message will provide a detailed description of each debit and credit involved in the transaction. Call 1-800-SUNTRUST for bank account details.

If you have any questions, please call (850) 644-9452 at the Office of Student Financial Services, via e-mail at sfs@admin.fsu.edu or go to <http://www.sfs.fsu.edu> for more information.

Deadline: if the financial aid is not sufficient to cover all charges, the student is responsible for paying the balance by the tuition payment deadline (see date on the “Academic Calendar” in this *General Bulletin*). 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 or department billing should submit the required documents no later than the fifth day of the semester, but preferably immediately after registration. Intern Participation Certificates and the Florida Prepaid College Program do not pay the full amount of tuition. Students must pay the remaining balance due by the tuition payment deadline. Outstanding tuition and charges from a previous semester will be deducted from financial aid received during a current semester, if registration is permitted.

Deferments, Loans, and Check Cancellation

Deferments

Students must confirm their application is complete by the first week of the semester by going to <http://www.studentsfirst.fsu.edu> and clicking on the appropriate category under “check financial aid status” subheading in the “Money Matters” section.

Financial aid deferments will be processed automatically for all financial aid students who meet the following criteria:

1. The student has completed the financial aid application process by the published deadline (indicated in the Financial Aid Application Packet);

and

2. The student does not have financial aid available during financial aid distribution (the second week of the term).

Financial aid students who do not receive a financial aid deferment must pay their tuition in full by tuition payment deadline. See the dates published in the “Academic Calendar,” included in this *General Bulletin*. 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 their financial aid has arrived and all requirements have been met by the deferment expiration date. Go to <http://www.fees.fsu.edu> and log in; you will then see your courses and fees detailed. To view your deferment amount and deadline, click on the “Details” button next to “Arrangements.” With your temporary deferment, your total balance may show “\$zero” (\$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 by the deferment deadline. If you have questions, contact us at sfs@admin.fsu.edu or (850) 644-9452. Also, check your financial aid status at <http://www.studentsfirst.fsu.edu>. If the student’s 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. Additionally, registration will not be permitted and transcripts and diplomas will not be mailed until debts are paid in full.

Delayed Delivery Loans

Students in need of funds as a result of financial aid being delayed may apply for a delayed delivery loan at the Office of Financial Aid, A4700 University Center. To be eligible for a delayed delivery loan, a student’s financial aid application must be complete by August 1 of each year. Eligibility for the loan will be determined by the type of aid awarded and the hours enrolled, and the student’s account status is not delinquent. Accounts in delinquent status (past due) are not eligible for loans. A picture ID is required in order to receive a delayed delivery loan. 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. Delayed delivery loans are due when the financial aid arrives, or by the financial aid deferment deadline. Debts not paid will prohibit students from using University services such as registration, transcripts, etc.

Delayed delivery loans **are not available** until the financial aid distribution period. Students should come prepared to buy books and make deposits for housing, as financial aid distribution does not take place until the second week of the term.

Emergency Loans

Students who have emergency situations such as death in the family or unexpected major medical or dental bills may apply for an emergency loan at the Office of Financial Aid. Documentation and a picture ID is required to receive an emergency loan. Accounts in delinquent status are not eligible for loans. Loans must be paid by the due date and university services will not be granted until paid in full.

Check Cancellation

Any Stafford Loan check available at financial aid distribution that is not picked up 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 (Perkins, GSL, UGSL) prior to it being disbursed to the student. Financial aid is processed at the end of the first week of each semester and as it arrives thereafter. If the loan has already been disbursed, the student is required to notify Student Financial Services in writing within fourteen (14) days that they do not want part or all of the loan they have received. A form can be completed at the Office of Student Financial Services and repayment can be made to The Florida State University by FSUCard, cash, cashier’s check or money order, or the original check can be brought to our office. Students who want to refuse loans after the fourteen (14) day notification period must contact their lender for repayment.

Exit Interviews

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 (6) semester hours. These loans include Perkins (NDSL), subsidized Stafford (GSL), and Unsubsidized Stafford (UGSL) loans. Failure to complete this procedure will result in the withholding of diploma, transcripts, and other University services. To complete this requirement, students should go to the “Money Matters” section of <http://www.studentsfirst.fsu.edu> and select the “exit interview for financial aid” option. Students will need their Social Security Number and registration PIN or web name and password to sign onto the session. Students planning to continue their academic studies at The Florida State University should contact the Office of Student Financial Services at A1500 University Center to ensure that their exit interview stop is removed.

Additional Sources of Financial Aid

The **Student Aid Resource (STAR) Center**, located within the Office of Financial Aid, is a multimedia resource center designed to provide additional information about sources of financial aid and private scholarships.

The center provides current website assistance, books, pamphlets, articles and other materials as resources for alternative types of financial aid for all individuals.

Scholarships

The 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 admittance for these scholarships, which are administered by the Office of Admissions.

In addition, the individual departments described in the “Academic Departments and Programs” section of this *General Bulletin* list scholarships, as well as assistantships, available for students of specific majors.

Contingent upon funding, need-based scholarships are available based on eligibility for financial aid and criteria set by donors. Please contact the Student Aid Resource (STAR) Center in the Office of Financial Aid for further information.

The Florida Department of Education, located in Tallahassee, FL, offers a multiplicity of programs for scholarships, grants, and loans to help defray a student’s cost of education. These programs are generally available to Florida residents. Contact the Florida Department of Education at (888) 827-2004; <http://www.firn.edu/doi>. 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 benefactor must bring them to the Office of Student Financial Services for processing at A1500 University Center.

Student Employment Services

Last year, over 2900 students found work in Tallahassee through **Student Employment Services (SES)**. This program provides opportunities for part-time employment for students and is a comprehensive source for jobs in the private sector, at state agencies and on-campus. SES facilitates the job search process by offering an array of job locator services. Students do not need to be eligible for (or even apply for) financial aid in order to use Student Employment Services.

A variety of job listings are grouped by category (e.g. accounting, computers, retail, clerical, child care, state/county/city agencies). These listings may be accessed on the web at <http://mwrdc.fsu.edu:1204/fsyjpr01>. Listings are updated daily.

The Federal Work Study Program (FWSP) is a federally funded financial aid program, administered by the Office of Financial Aid, that enables students to earn a portion of their financial aid award. 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. By federal regulation, the work schedule cannot interfere with a student’s schedule. Federal Work Study is awarded on a first-come, first-served basis.

Students may also utilize their Federal Work Study awards by participating in community service through the Community Service Learning Program (CSLP). This program is designed to locate and develop off-campus community service jobs and offer referrals for eligible students. Community service improves the quality of life of local residents, as well as encourages student awareness and continued participation in society at large. Students assist with programs related to health care, child care, 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 Federal Work Study Program and CSLP, students must apply for financial aid at The Florida State University by completing the *Free Application for Federal Student Aid (FAFSA)*, and by submitting all other required documentation





HOUSING

Director of University Housing: Rita Moser
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, or national origin. Some rooms and apartments are adapted for residents who have physical disabilities.

University facilities on the main campus include 16 residence halls accommodating approximately 4,800 single undergraduates; one apartment facility with 40 single-occupancy efficiencies and 40 townhouses housing four students each; and one apartment facility with 94 one-bedroom, double-occupancy apartments reserved for single graduate students. In Fall 2003, a new apartment facility housing 566 students will open. Each apartment will house four students in single bedrooms. The chart below lists each residence hall; its visitation policy; whether the facility's residents are male, female, or coed; and the special programs available in each residential area.

For the security of the residents, entrances to residence halls are locked at all times. Residents must use either keys or FSUCards to enter, and visitors must use the telephones at the main entrances to request admittance.

Each room is furnished with a bed for each resident, study desks, chairs, dresser space, a small refrigerator, a telephone line providing local service, and a direct computer connection line 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.

Alumni Village

Single graduate students, older undergraduate students, and students with dependents are eligible for housing in Alumni Village, an apartment complex one and a half miles from campus. Alumni Village offers 791 one-, two-, and three-bedroom furnished apartments. Residents have access to a preschool, laundry facilities, a recreation building, and playgrounds on the premises. The Alumni Village Office provides assistance and coordinates programs for residents.

Costs

Residence Halls for Single Undergraduate Students

Semester rate includes mail service, local telephone service, direct computer connections and refrigerator rental:

Standard double
Air-conditioned room: \$1560.00*

Note: a limited number of single and double rooms with private baths are available at an additional cost per semester. Payment schedules are outlined in the housing agreement.

Apartment Housing for Single Students

Rogers Hall (apartments) monthly, per student (Including utilities and local telephone): \$340.00*

McCullum Hall (apartments), per semester, per student (Including utilities and local telephone): \$1,645.00–2100.00.*

Alumni Village

One-bedroom furnished apartment:
\$310.00–\$335.00*

Two-bedroom furnished apartment:
\$335.00–\$468.00*

Three-bedroom furnished apartment:
\$490.00–\$540.00*

Note: monthly rate does not include utilities except garbage collection.

*All housing rental fees are established by The 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. Fees quoted are 2002–2003 figures and are subject to change.

Visitation Options

Non-Visitation. Students in this section will be assigned to an area of a residence hall in which no visitation by members of the opposite sex is permitted in student rooms or in living units at any time.

Limited Visitation. Visitation within student rooms by members of the opposite sex is permitted during the following hours: Sunday through Thursday, 11 a.m. to 12 midnight; and Friday and Saturday, 11 a.m. to 2 a.m.

Self-Regulated. Visitation within student rooms by members of the opposite sex is determined by mutual agreement among roommates or suitemates at the beginning of the year and whenever occupancy changes.

Applications

Upon notice of admission, students receive information about housing options. The Office of University Housing sends more detailed information about University housing options and applications to all admitted students at the appropriate time before each semester. It is not necessary to request application materials. An on-line application is available at <http://www.housing.fsu.edu>.

As space is limited, interested students are urged to submit their applications and advance payment as quickly as possible. Assignments are made on a priority basis: 1) returning students; and 2) all new residents—by the date application and payment are received in the Office of University Housing. Although applicants are given the opportunity to express preference, no guarantee can be given that specific room or hall preferences can be met.

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. Liberal studies honors students may reside in Landis or Gilchrist Hall, where staff and

Residence Halls

Halls	Residents	Visitation Policy	Special Programs/Comments
Bryan	Co-ed	Self-regulated	Bryan Hall Learning Community; freshmen only
Broward	Co-ed	Self-regulated	Broward Public Affairs Learning Community; freshmen only
Gilchrist	Co-ed	Self-regulated	Honors Community
Cawthon	Co-ed	Limited	Education Learning Community; Music Learning Center
DeGraff	Co-ed	Limited	
Deviney	Co-ed	Limited	Cultural Awareness Program
Dorman	Women	Limited	Community-style living
Jennie Murphree	Women	Limited; selected suites are non-visitation	Women in Math, Science, and Engineering Program; semi-private baths
Kellum	Co-ed	Limited	Genesis Program
Landis	Co-ed	Limited	Honors Community
Reynolds	Co-ed	Self-regulated	Semi-private baths; Wellness Lifestyle Program
Salley	Co-ed	Self-regulated	Suites: two students/room, four/study, four/bath
Smith	Co-ed	Limited	Community-style living

Apartments

Halls	Residents	Visitation Policy	Special Programs/Comments
McCollum	Co-ed	Self-regulated	Sophomores, juniors and seniors; efficiencies and townhouses
Rogers	Co-ed	Self-regulated	Graduates and older undergraduates: limited availability for undergraduate residence hall students
New Apartment Facility	Co-ed	Self-regulated	Older undergraduates and graduates

residents share a commitment to the honors program. The freshman leadership program, **Genesis**, is housed on one floor of Kellum Hall. Cultural awareness is promoted within Deviney Hall through an exposure to the differences in race, religion, and culture among students here at The Florida State University. Jennie Murphree's **Women in Math, Science and Engineering** floor provides mentoring and support to women majoring in these academic areas.

The **Bryan Hall Learning Community** is designed to help students succeed during the critical first year of college. Students in Bryan experience the benefits of living in a close-knit, supportive community, get to know faculty on a personal basis, receive academic support as needed, and become involved in campus activities. The **Broward Hall Public Affairs Learning Community** is designed to give students with an interest in public affairs and international service the opportunity to explore the rich resources of the University.

Cawthon Hall is home to two learning communities: the **Education Learning Community (ELC)** and the **Music Learning Center**. The ELC is available to first-year students who may

be majoring in education. The goal of this learning community is to provide a supportive environment where students will have the opportunity to meet other freshmen who are interested in education. Together, students will explore the field of education through their participation in Service Learning experiences. The Music Learning Center in Cawthon provides first- and second-year music students the opportunity to live and study in a residential college environment. This program creates opportunities for students to evaluate the place and purpose of music in their lives, as a career, as a creative outlet, as a life-long avocation, and as a means of serving others and benefiting their community.

For additional information about special programs, please visit the housing website at <http://www.housing.fsu.edu>.

Agreements

The **Annual Housing Agreement** for residence hall students extends from the date the application is submitted through the end of spring semester and becomes effective when the advance payment is paid. All applicants who accept the

Annual Housing Agreement and enroll in the University will be required to reside in the residence hall during any period of enrollment through the second term of the academic year (August through April) and may not cancel the agreement except as stated therein.

The Annual Housing Agreement will be mailed to the student upon confirmation of admission to the University. The agreement should be read carefully and retained as a permanent record.

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 rent-free cooperative living houses for a limited number of students who have excellent academic records and financial need. Students share all household duties. Each foundation house is supervised by a head-resident upper-level student who resides with the students. Applications are accepted from undergraduate students at all classification levels throughout the year. *The Southern Scholarship Foundation, 322 Stadium Drive, Tallahassee, FL 32304; (850) 222-3833; <http://www.scholarships.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. Roommate requests are posted on a bulletin board outside the office located at 229-230 *Activities Building, University Union*.

ORIENTATION

Office of Orientation

Director: Sara Connolly;
Assistant Director: Carley Barnes

Attending an orientation, advisement, and registration session, coordinated by the Office of Orientation, is required of all new undergraduate students. During orientation, students are given essential information: the University's policies and procedures; community values and standards; and academic requirements and opportunities. Students also receive practical advice on consumer survival: where to buy books; open checking accounts; or meet other students with similar interests.

In addition to meeting faculty and administrators, students are assigned to small groups led by trained staff members—currently enrolled students who inform and guide the newcomers. Students must meet with their academic advisors before registering for classes.

Students may not register for their first term on campus until they have completed an orientation session. Although they may be admitted up to a year before they enter, students may only attend orientation immediately prior to their enrollment. The Office of Orientation 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 and students share tours of residence halls and visit booths set up in a fair-like atmosphere, called **Seminole Showcase**. Seminole Showcase is an excellent way to view the diversity available at the University, from the University honors program, cultural clubs, and service organizations to sororities and fraternities.

All admitted undergraduate students receive by mail information and instructions about registering for orientation. Attendance is by reservation only, and participants must pay a nonrefundable fee of \$25.

Persons with Disabilities. Any student in need of specific services and reasonable accommodations should contact the Student Disability Resource Center, *1st Floor, Kellum Hall*; (850) 644-9566.

International Center

Director: Roberta Christie;
Assistant Director/Immigration Advisor:
Kristen Hagen;
107 South Wildwood

Orientation for new international students is **mandatory** and is held before Fall, Spring and Summer semesters. Orientation is required for undergraduates, transfer students, and students coming directly from their countries, as well as students readmitted to the University. New federal reporting requirements make it essential for international students report to and stay in close communication with the International Center (IC). All undergraduate international students are required to attend Undergraduate Orientation in addition to the International Center Orientation. For additional information, please refer to the University Orientation website at <http://www.fsu.edu/orientation>. During orientation, students receive the *International Student Handbook* and other useful materials about University and community resources. Copies of immigration documents are made for University files. Students receive information and advice regarding insurance, immunization, and other health requirements. Returning international students address the concerns of students who have newly arrived from their countries. International students receive notification of International Student orientation dates and times from International Admissions, the International Center and via the IC website at <http://www.fsu.edu/~fsu-isc>.

Note: incoming international students are **not** allowed to register before presenting their immigration documents to the staff of the International Center and being cleared by Thagard Student Health Center, verifying insurance coverage and proper immunization.

It is essential that international students maintain their immigration status while in the United States. For a checklist of rules to remember, please refer to the International Center website at <http://www.fsu.edu/~fsu-isc>.

Most departments hold orientation sessions for new graduate students during the week before classes.





OFFICE OF THE UNIVERSITY REGISTRAR

University Registrar: Tim Martin;
Associate Registrars: Kimberly Barber,
Ron Henthorn, Yvette Herr
A3900 University Center

The Office of the University Registrar is the official custodian of permanent academic records of all past and currently enrolled students at The Florida State University. It is responsible for registering students and for maintaining student and departmental records for the term in progress, preparing 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, and grade problems.

Report immediately all changes in permanent and local addresses, name, social security number, divisions and majors, and residency, to this office.

Persons with Disabilities. Any student in need of specific services and reasonable accommodations should contact the *Student Disability Resource Center, 1st Floor, Kellum Hall, (850) 644-9566*.

Registration

During each academic term, an official registration is held 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 The Florida State University is conducted by telephone and by website. Using the telephone data entry and voice responses, or an Internet website, students can register for all of their courses in a matter of minutes and can gain access to information concerning their tuition and fees from the privacy of their own home. **Please note that by registering students accept both fee and grade liability.** Students are advised if the requested course is available and informed of other matters related to registration, such as variable credit. However, the registration system will not tell students if they have registered for classes meeting during the same time period. Therefore, it is important to plan very carefully before requesting courses. Students using the automatic redial button will always receive a busy signal. Registering in the evening or during the night will avoid overloaded circuits.

Students should be aware that phone calls to The Florida State University's interactive telephone network systems for course registration, CLAST registration, Office of Financial Aid or Office of Admissions services may be periodically monitored to insure that the appropriate quality control is maintained.

Registration Guide and Course Schedules

The Florida State University publishes the *Registration Guide* which includes registration worksheets. The *Guide* also contains a list of all registration deadlines, fee and payment information, and important announcements. A copy of the *Guide* can be obtained from the Office of the University Registrar's information desk (A3900 University Center) each term. This information is also published online at the Office of the University Registrar website at <http://registrar.fsu.edu>.

Lists of course offerings, with the meeting time and location of each course, and where possible the instructor who will be responsible for each course, are made available online through the Course Look Up system. This system is available twenty-two hours a day, year round. To view class schedules, select the Course Look Up link from the web page of the Office of the University Registrar. Course listings for an upcoming semester will be available fourteen (14) days prior to the first registration window for that semester.

Students are advised to organize their material and plan their schedule before using the registration worksheets in the *Registration Guide*. Students must contact the appropriate departmental office for any clearances or authorization needed. Individual instructors should be contacted for courses requiring "permission of instructor." It is important to take care of any academic or administrative hold ("stop") before calling to register.

How to Find a Course in This Bulletin

The "Course Prefixes" chapter lists course subjects alphabetically by letter prefix. The column to the right contains the department(s) and/or program(s) offering that course subject. The departments/programs can be found, alphabetically, in the "Academic Departments and Programs" section, where each course offered in a given program is listed, including title, description, and credit hours.

Registration Responsibility

Undergraduate Studies students and first-time transfer students must see their academic advisers for assistance with their course selection prior to registration. New students may be required to register for preparatory mathematics and/or English courses to complete registration.

Students are responsible for meeting prerequisites and corequisites for each course in which they are enrolled. Students are also responsible for any changes made to their schedule without an adviser's approval through the drop/add process.

Students will 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 two days of classes) will be assessed a \$100.00 late registration fee.

Registration Permits

All permits, such as underloads, overloads, directed individual study (DIS), satisfactory/unsatisfactory (S/U) grading, and requests to take a graduate course by undergraduate students, must be completed at the time of academic advisement. Many permits require the signature of the academic dean as well as the adviser. Students are responsible for ensuring that the Office of the University Registrar has copies of these permits on file.

Course/Credit Modification

Undergraduate 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 undergraduate student wishing to modify credit may obtain the necessary forms in the Office of the University Registrar.

Required Preparatory Courses

A student entering as a freshman who has a score of 410 or below on the Verbal Subtest administered as part of the Scholastic Aptitude Test (recentered SAT), 15 or below on the English section of the Enhanced American College Testing Program examination (ACT) or 82 or below on the Florida College Entry-Level Placement Test will be required during the first term of enrollment to take precollege work in composition, ENC 0020, offered on this campus by the Tallahassee Community College. Those students with

a recentered SAT score of 410 or below, an Enhanced ACT reading section score of 15 or below, or 82 or below on the Florida College Entry-Level Placement Test (CELPT) will be required to enroll in a precollege course, REA 0010. A student entering as a freshman whose score on the recentered SAT Verbal Subtest is 420-470 or on the Enhanced ACT English is 16-18 will be required to enroll in ENC 1905r. Such students will not be allowed to register for ENC 1101 during the first term of enrollment by reason of their scores on SAT/ACT.

Students entering as freshmen who have a recentered SAT mathematics score of 460 or below, an Enhanced ACT mathematics score of 20 or below (or its equivalent) or 71 or less on the Florida CELPT must take the on-campus Supplemental Mathematics Skills test. On the basis of scores on the SAT/ACT mathematics tests and the Supplemental Mathematics Skills test, students will, as space permits, be 1) placed in MAC 1105, or higher; or 2) be required to take community college preparatory course work in mathematics offered by Tallahassee Community College on the campus of The Florida State University. Students completing MAT 0024 with a passing grade must in their next term of enrollment register for MAT 1033. Students taking MAT 1033 must pass this course with a grade of "C-" or better before registering for advanced math classes. All remedial course work must be completed with a passing grade and a satisfactory score on the CPT.

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; lack of satisfactory Florida College Level Academic Skills Test (CLAST) scores; or failure to process readmission papers after a withdrawal or after a two-term absence (including the summer term) from the University. Also, failure to meet specific requirements of a University college, school, or department, the judicial office, or the office of special students, may induce a registration "stop."

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 record are allowed to register in error, they will be 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.

Registration Stop for Outstanding Charges

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" will not be removed and such students will not be permitted to register until the debt is cleared.

Registrar Cancellation of Schedule

Students allowed to register in error will be 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 the first day of class will be cancelled by the Office of the University Registrar. This cancellation will be without liability for tuition. A student whose registration is cancelled by the University Registrar must apply for readmission.

Student Cancellation of Schedule

A student may cancel registration during the first five days of classes for a semester or summer session by submitting a written request to the *Office of the University Registrar A3900 University Center* or to *Withdrawal Services, A4300 University Center*. Beyond the fifth day of classes, a student cannot voluntarily cancel registration but must apply for withdrawal from the University. Students who cancel their registration within this time frame are not liable for tuition; if tuition has been paid, such students should request a full refund of fees. Students who cancel their registration and are not enrolled for the following term (non-enrollment for two consecutive terms) must apply for readmission.

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 that appear on their schedule after the fourth day of classes. Courses may be dropped through the fourth week of classes; however, tuition charges will remain. Approval by the student's academic dean is required to reduce the academic load below twelve (12) semester hours or increase an academic load above eighteen (18) semester hours (to a maximum of twenty-one [21] semester hours). Courses dropped during this period will not appear on the student's transcript. To add courses after the first four days of classes requires the academic dean's approval.

After the fourth week of classes, courses may be dropped only in exceptional circumstances. Dates are prorated for individual summer sessions. Approval is required by the academic dean. Such

courses will appear on the student's transcript with the notation "WD." Students who register for courses but who do not attend the classes will receive grades of "F" if the courses are not officially dropped.

Students Called to Active Military Duty

Students called to active duty who wish to receive incompletes for the semester and complete the coursework at a later date should fax or present to their individual instructors a copy of the orders calling them to active duty along with a written request to receive an incomplete ("I") in the course. Students called to active duty who prefer to have their schedules administratively cancelled should fax ([850] 644-7134) or hand carry a copy of their orders along with a statement requesting an administrative cancellation to the Administrative Section of the Office of the University Registrar, A3918 University Center.

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 will determine directed individual study policies for undergraduate students. The directed individual study course title must be approved in writing by the instructor offering the course and the departmental chair, or representative, and will be posted on the student's record. Students enrolled in Undergraduate Studies must also have permission of the Dean of Undergraduate Studies.

Undergraduate Students: Permission 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, or has made a combined score on the Graduate Record Examinations aptitude test of at least 1000; 2) carries a course load of no more than fifteen (15) semester hours; and 3) has the advance approval of the dean, the department chair, and the instructor offering the course, prior to registration. Students must have eligibility certified in the Office of the University Registrar before seeking approval of those listed in item 3).

Students who wish to receive graduate credit for such course work must obtain approval of the dean, the department chair, and the instructor offering the course, prior to registration for the graduate course. After approval, up to twelve (12) semester hours may be counted toward a graduate degree at The Florida State University, provided the course has not been counted toward a previous degree.

Florida Agricultural and Mechanical University—The 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. Within the policy of the student's home university, courses taken at the host university must be graded on a satisfactory/unsatisfactory (S/U) basis;
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; and
6. Faculty and full-time students at either institution have equal access to the library facilities at both institutions.

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*.

Tallahassee Community College/The Florida State University Cooperative Program

A student at one institution may enroll at the other institution under the following conditions:

1. **Admission.** The student must obtain specific approval from the designated representative of each institution. At The Florida State University, the approving official for all areas is the Office of the University Registrar. Students of The Florida State University planning to take a course at TCC must also be cleared by their academic dean's office. The approving official at Tallahassee Community College is the Registrar;
2. **Registration.** Courses taken at the host institution must not be offered at the home institution. If there is a shortage of classroom space, interinstitutional students will be given lower priority for scheduling than "home" students.

Interinstitutional students will be expected to follow prescribed registration procedures at each institution. If academic term calendars of the institutions vary, students will be expected to attend all classes, complete examinations, and dis-

charge other responsibilities normally required of students in accordance with the schedule of each institution;

3. **Fees.** The student will pay fees to the host institution;
4. **Records and Certification.** Each institution will maintain its own permanent record of courses taken. Unofficial grade reports will be exchanged by the institutions at the end of each term. Certifications of enrollment or progress will be made by each institution when requested by the student for Selective Service, Veteran's Administration, or other purposes.

Undergraduate 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. 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.

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

Dual Enrollment of Leon County High School Students—School Board of Leon County/The Florida State University Cooperative Program

To receive dual enrollment credit, students must adhere to the rules and regulations of the Leon County School Board, the Florida Board of Education, the Florida Legislature, and the following conditions:

1. The student must currently be enrolled in a secondary school operated by the Leon County School Board and must be taking a course or courses from The Florida State University for which the student shall receive credit toward a high school diploma. The student must possess a grade point average (GPA) of 3.2 or better, certified by a high school counselor, classified as a high school junior or senior, and meet requirements established by the School Board, the University, and the Florida Legislature;

2. Students will be enrolled at no cost to either the student or to the school district. The University will provide books and materials to the student and arrange for the payment of all fees;

3. Parents or guardians are responsible for the student's transportation;

4. Courses taken at the University will under no circumstances duplicate courses offered in the student's high school. Physical education courses offered by the University will not be considered qualified courses. The University may cancel a course due to insufficient enrollment; and

5. To remain eligible, the student must obtain a 2.0 GPA in all University course work. Both the University and the School Board will maintain academic records of the student's course work. The University will determine the status and grades of the students and will provide records of the same to the School Board at the end of each term.

Students in Leon County public high schools interested in dual enrollment course work should consult their guidance counselor for further information. Academic advising and registration for dual enrollment students at The Florida State University are provided by the Office of Undergraduate Studies.

The above interinstitutional agreements and the dual enrollment agreement between the Leon County School Board and The Florida State University are on file at the University in the offices of the University Registrar and the Dean of the Faculties.

Registration of Special (Non-Degree Seeking) Students

All registration by special students is on a space-available basis. Because of excessive demand for some graduate courses, special students may be enrolled in such courses only with the permission of the graduate officer of that particular unit.

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, 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," admission to the University is not required. The course(s) taken will not appear on the student's permanent record.

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.

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.

Transcripts

The Office of the University Registrar will issue official transcripts at the written request of the student. Individuals needing official transcripts should make a written request 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 Judicial Office 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 \$5.00 will be assessed for each official transcript issued.

Enrollment Certification

All student certifications will be by official request only. Students in need of enrollment verification should make a written request directly to: *Certification Section of the Office of the University Registrar, A3900 University Center, Tallahassee, FL 32306-2480*, or go to <http://www.studentsfirst.fsu.edu>. Select "fill out a certification request." Follow the instructions on the screen in order to obtain your certification letter. Your letter will be processed the following business day.

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**, has the right to a response from the Office of the University Registrar within thirty (30) days. When the record includes information on more than one student, only the information on the student making the request will be given.



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. 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.

The University takes academic advising seriously and accordingly has developed an official University policy.

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. The Florida State University is committed to a strong program of effective academic advising for all of its students. The Florida State University understands academic advisement to be a function considerably broader than assistance with course scheduling. Academic advising is a process which 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

The 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 achieving junior status;

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, school, 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 The 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 The 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 undecided majors they advise. Directors or coordinators of advising in each unit should take care to inform advisors of the Center for Advising Undeclared Students, Curricular-Career Information Services (CCIS), 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 which 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 Center for Advising Undeclared Students for information about their academic options or to Curricular-Career Information Services (CCIS) in the Career Center for help in clarifying their interests and abilities.

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 Center for Advising Undeclared Students (CAUS).

Advising Organization

The **Office of Undergraduate Studies** assigns all entering freshmen and lower-division transfer students to an advisor, with the exception of those accepted into the School of Music, the Department of Dance (School of Visual Arts and Dance), and the School of Theatre's bachelor of fine arts (BFA) program. 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 liberal studies requirements and other University policies and procedures. (See the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for a discussion of the Liberal Studies Program and other degree requirements.)

Upon entering a major, usually around the junior year, the focus of advising shifts from liberal studies to major and college requirements. In most cases, this means that the student is assigned to an 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 Office of Undergraduate Studies assigns majors for lower-division students. Upper-division students are assigned advisors through the dean's office of their college or school.

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 important prerequisite courses for that major.

Lower-division students are allowed to change their major at any time during the semester at the Office of Undergraduate Studies. Upper-division students should contact their academic dean's office.

Advising Services

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 advisor 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://www.fsu.edu/~ugstudie/advisors/index.html> or by calling either the dean's office for the college or school or the academic department of the intended major. The Office of Undergraduate Studies 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.

Undeclared Majors

The Florida State University will allow students to remain undeclared until they have attempted seventy-five (75) semester hours; however, it is common for academic majors to require that specific courses be taken during the freshman and sophomore years. An advisor from the intended major is the best person with whom to discuss these requirements. Students should, therefore, declare their intended major as early as possible to ensure proper advisement.

The Center for Advising Undeclared Students (CAUS) advises freshmen and sophomores who are not ready to declare an intended major. Undeclared students are advised to take appropriate liberal studies and introductory courses while exploring their available options. CAUS works closely with the Career Center and departmental advisors to provide a unified academic and career approach for the undeclared student. CAUS also supports the academic departments through advisor training, and management of the advisor listserv. For more information, contact the *Center for Advising Undeclared Students*, 3200 UCA, (850) 644-3430.

Undeclared students should also contact the Career Center early in their academic career. For a description of the Career Center and its services, refer to the "Student Services" chapter of this *General Bulletin*.

StudentsFirst Advising

The University provides two conveniently located drop-in advising services. These services are intended to supplement the advising provided by academic departments and are popular resources for quick answers about general University policies and procedures. In addition to being placed in high-traffic locations, these services also are available outside traditional office hours. The first site is located on the second floor of the Union in Krentzman Lounge. This location offers extended hours from Monday–Thursday. The second site is located in the basement of Strozier Library, next to the computer lab. This location is available on Sundays and also maintains early evening hours from Monday–Wednesday.

Student Academic Support System (SASS)

The State of Florida has implemented a computerized advising system to help both the student and the advisor monitor academic progress. The

SASS report outlines requirements the student has already met and those the student has yet to complete. Reports typically will be available through the academic advisor, although some departments have alternative methods for distributing reports to their majors. Individual requests for SASS reports may be made at the *Center for Advising Undeclared Students*, A3200 University Center. Students may also view their reports on-line by selecting the "undergraduate graduation check" option on the following website: <http://www.ais.fsu.edu/ais/applications/student/index.html>.

Preprofessional Majors

Prelaw students may major in many different fields and will have an advisor assigned to them based on their undergraduate academic area. Students planning to enter law school after earning a bachelor's degree should join the prelaw society, Phi Alpha Delta, where they will receive special information and services focusing on prelaw issues. Students may come to the Center for Advising Undeclared Students to obtain a list of advisors who specialize in working with prelaw students.

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. Since there are no specific majors leading directly to individual health professions, 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 also is available through this office. For further information, visit *408 College of Medicine*, or call (850) 644-7678.

Academic Support for Athletes

The **Academic Support Program** for student-athletes assists student-athletes with the transition into college and provides continued support in all phases of academic and professional development culminating with graduation, job placement, or graduate school. Program staff provide 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. *A6100 University Center*; (850) 644-9201.

Center for Academic Retention and Enhancement (CARE)

The Florida State University and the **Center for Academic Retention and Enhancement (CARE)**, are committed to recruiting, retaining, and graduating economically, educationally, or culturally disadvantaged students, who have the potential to do college level work.

CARE is designed to provide first-time-in-college students from socially and/or economically disadvantaged backgrounds with services such as a limited number of exclusive, full-credit liberal studies courses, academic advising, tutoring, a computer lab, learning skills workshops, 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.

The center provides a high school-to-college **Summer Bridge Program** that includes: intensive academic and social orientation to the University; introduces participants to the responsibilities and opportunities of college life; encourages the development of useful study habits; and assists students with recognizing their potential for success. *A5400 University Center (850) 644-9699.*

The **Student Support Services Program (SSSP)** is a federal TRIO grant program that provides opportunities for academic development and assists Florida State University students in motivating them to successfully complete their post-secondary education. The goal of SSSP is to increase the college retention and graduation rates of its participants, and to facilitate the process of transition from one level of higher education to the next.

Pre-Collegiate Programs

College Reach Out Program is a state-funded program established to identify, motivate, and prepare disadvantaged middle and high school students to pursue post-secondary education.

The **University Experience Program** is available for select high school students from low socio-economic backgrounds who visit the campus for two weeks during the summer. They receive instruction in verbal/math skills, cultural enrichment and otherwise experience college life.

The **Upward Bound Program** (located at James A. Shanks High School in Quincy, Florida) is a federally funded program that serves high school students from low socio-economic backgrounds. The UBP staff helps students develop academic skills and encourages them to complete high school and continue their formal education at the college or university of their choice.

Reading/Writing Center

The Reading/Writing Center provides individualized instruction in reading, writing, and study skills. The center offers ENC 1905-01, required for freshmen who score 450 – 470 on the verbal section of the SAT or 17 – 18 on the Enhanced ACT. It also offers directed individual study in reading and writing to undergraduate and graduate students at all levels. Students sign up for one to three (1 – 3) elective credits (ENC 1905-02) and undertake a course of study designed to meet their specific needs. Students may also receive short-term tutorial instruction on a no-credit, walk-in basis. Help in preparing for the Florida CLAST, GRE, and LSAT is also available.

Mathematics Help Center

The Mathematics Help Center offers tutorial assistance for mathematics courses MAT 1024, 1033; MAC 1105, 1113, 1140, 2233, 2311; MGF 1106, 1107; and limited help in MAD 2104 and MAC 2312 and 2313. The center offers a “practice” Florida CLAST several times each semester. Center hours are announced each semester by course instructors. The hours are also posted at the help center at *110 Milton Carothers Hall* and at *208 Love Building*.

Academic Support/Acceptance Program

The Academic Support/Acceptance Program (ASAP), located at *A3500 University Center*, provides an intensive one-semester counseling/advising program for third-year students who are having unusual difficulty in selecting or gaining admission into upper-division majors. Most ASAP students participate in a special section of SDS 3340r, Introduction to Career Development, though other options are available. ASAP has been funded through a special grant for enhancing undergraduate education to address the special needs of these students. The contact person for this program is Linda Mahler, (850) 644-0387.

Curricular-Career Information Services (CCIS)

The Curricular-Career Information Services (CCIS) is a multimedia, self-service career resource with books, pamphlets, videotapes, slides, filmstrips, computers, and career advisors to help students choose a major and a career. Special equipment and materials are available for students with disabilities. Here students find answers to questions about occupations, job outlook, vocational schools, graduate programs, job-hunting techniques, and many other career-related topics. CCIS holds frequent workshops and clinics.

Bryan Hall Learning Community

Participants in this program will enroll in a section of AMS 1363 which offers an introduction to the academic opportunities provided by a research university. Faculty research, scholarship and creative activities are emphasized in the context of the teaching, research and service missions of the University.

The First-Year Experience

The First-Year Experience (AMS 1363) is a one-credit-hour course offered only to first-time-in-college students and is coordinated by the Dean of Students Department and the American and Florida Studies Program. The class helps students to understand the importance of a liberal arts education, develop a framework for understanding their university experiences, and become more goal-oriented in their academic and extracurricular experiences. Students learn the history of The Florida State University, including the values of the institution, and explore the various University resources available to them. Faculty and administrators teach the course in small, seminar-style classes of approximately twenty students, and each group has access to a trained peer leader.

Students may contact the Dean of Students Department, at (850) 644-2428, to learn more about the First-Year Experience.

Center for Intensive English Studies

The Center for Intensive English Studies, part of the Center for Professional Development and Public Service, 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. The center also provides English-as-a-second-language services for the spouses of regular students at The Florida State University, as well as for some already admitted international students who are experiencing difficulty in mastering the English language.

Center for Retention and Academic Support

The Center for Retention and Academic Support provides special assistance for students in academic difficulty or who are unable to decide on a major. The center also provides assistance for students having difficulty preparing for the Florida CLAST. The office of Dr. Patricia Stith, the University Director of Retention Studies, and Dr. Linda Mahler, Director of Academic Support/Acceptance Program, is located at *A3500 University Center*.

Office of Undergraduate Studies

Assistant Dean: Gregory Beaumont

The Office of Undergraduate Studies provides information and services on all academic matters, including exemptions with credit, information on liberal studies courses, academic standing, dismissal, readmission, remediation, correspondence study, enrollment in courses at other colleges and universities, and major changes for most freshman and sophomore students. 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 three important academic functions:

1. The office evaluates all transfer credit to determine how it applies to The Florida State University's liberal studies requirements and prepares liberal studies check sheets for each undergraduate transfer student who enters without an associate in arts (AA) degree from a Florida public senior or community college. See the “Undergraduate Degree Requirements” chapter of this *General Bulletin* for details. Decisions about transfer credit applying towards a major requirement are made in the office of the dean responsible for that major;
2. The assignment of advisors is also the function of this office. Students who are accepted into the School of Music or into bachelor of fine

arts (BFA) programs in theatre or dance are advised by their respective academic dean's office; and

3. Finally, the office monitors student progress in liberal studies through the Student Academic Support System (SASS) report. The SASS report will be reviewed with the student at the time of formal declaration of a major for transfer to an upper-division program.

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

The cooperative enrollment program between The Florida State University and area high schools is administered by the Office of Undergraduate Studies. See the "Office of the University Registrar" chapter of this *General Bulletin* for descriptions of these cooperative programs.

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. **Acceptance into a major advisement program does not constitute admission to the upper division of the University.**

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 (52) semester hours of credit;
2. Successful completion of at least one-half of the required semester hours in the Liberal Studies Program, including all required liberal studies courses in freshman composition and freshman mathematics (Areas I and II of the Liberal Studies Program—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 The 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 (75) 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.



STUDENT SERVICES

The Florida State University seeks to provide students with opportunities outside the classroom that will stimulate social and cultural awareness, physical well-being, intellectual expansion, and spiritual and moral growth. The University wishes to address the needs of the total student. And with that perspective, the University is committed to creating a sense of community among students, faculty, and administrators that will extend to the public, whether in the state, nation, or other countries.

Division of Student Affairs

Vice President for Student Affairs:

Mary B. Coburn;

Associate Vice President for Student Affairs:

Timothy Quinnan;

Associate Vice President for Student Affairs:

TBA

The goal of the Division of Student Affairs is to ensure all students are able to take advantage of the formal and informal educational experiences offered by The Florida State University. The Vice President for Student Affairs and the staff are responsible for the following departments:

Campus Child Care:

Alumni Village Child Development Center

Educational Research Center for Child Development

Starlight Childcare Center

Campus Recreation

Career Center

Center for Academic Retention and Enhancement (CARE)

Center for Civic Education and Service

Dean of Students Department

First-Year Experience (FYE)

Greek Affairs

Orientation

Sexual Harassment Reporting and Education

Student Disability Resource Center

Student Rights and Responsibilities

Victim Advocate Program

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International Center

Office of Multicultural Affairs

Oglesby Union

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Center for Participant Education

Congress of Graduate Students

FSU First Responder Unit

Off-Campus Housing

SAFE Connection

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Student Publications

Women's Center

Thagard Student Health Center

Partnership for Alcohol Responsibility (PAR)

University Housing

Some of these departments and their programs are discussed below; however, for more complete information, refer to *The Florida State University Student Handbook*. 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:

Evaluation Services

Food Services

Parking and Bus Services

Postal Services

Public Safety

Radio and Television

Sports

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.

Career Center

The Career Center, located in the *University Center, A4100*, helps students in all phases of their career development. The center's Curricular-Career Information Service unit helps students explore their skills, interests, and values and select appropriate academic programs and occupations to reach their career goals. The center's career library provides students access to both computer-based and print career assessment and information resources. The **Career Experience Opportunities Program** helps students explore career choices through various preprofessional internships and cooperative education work experiences. Students nearing the end of their academic programs find help in the **Career Placement Services** unit that administers the on-campus recruitment program and helps students develop effective job search techniques. Placement services are offered also through the Career Center in the colleges of Business and Engineering. For further information regarding Career Center programs and services, please visit our website at <http://www.career.fsu.edu>.

Child Care

The **Educational Research Center for Child Development** provides, for a fee, care and educational experiences for a limited number of children from ages 6 weeks to 5 years. Children of Florida State University students are given priority for enrollment. Space is limited, so please apply early.

The center is also a site for research by faculty members and graduate students in the areas of early childhood education and child development. In addition, it provides a laboratory setting in which students may observe or work with young children. For additional information, contact *Educational Research Center for Child Development, Division of Student Affairs, 370 Hull Drive, Tallahassee, FL 32306-4410, (850)644-1013; website: <http://www.fsu.edu/~staffair/child>*.

The **Alumni Village Child Development Center**, located in the University's family and graduate housing area, provides, for a fee, an educational child care program for children 2 1/2 to 5 years of age. Space is limited, so please apply early. A free after-school program is provided for residents of Alumni Village. This program operates Monday through Friday from 3:30 p.m. to 5:15 p.m. For additional information, please call (850) 644-8305.

The **Starlight Child Care Center** provides, for a fee, evening care for children ages three to eleven from 3:15 p.m. to 10:15 p.m. Monday through Thursday. Children of Florida State University students and faculty/staff will be accepted. Space is limited, so please apply early. For additional information, please call (850) 644-3096.

Community and Public Service

The Florida State University encourages students to become involved in community service and to broaden their academic experience through service learning courses. The University recognizes outstanding service through the President's Humanitarian of the Year Award. The Florida State University participates in **Campus Compact** and hosts **Florida Campus Compact** and the **Florida Learn and Serve**, all of which have as their purpose the promotion of student involvement in the community and the advocacy of the importance of civic responsibility in student learning.

Center for Civic Education and Service

At The Florida State University, community involvement and civic responsibility are integral elements of a liberal arts education. The **Center**

for Civic Education and Service promotes this vision by providing service opportunities for both students and faculty. The center operates a clearinghouse of service-related information, including a directory of service organizations in the community, a listing of classes that feature service-learning components, and a listing of student organizations that focus on service to the community.

The center administers the ServScript program at FSU. This one-of-a-kind program allows FSU students to record their hours of service to the community on their official academic transcript. Their transcript is a direct reflection of their college career to potential employers, and graduate and professional schools.

The center also coordinates, advises, and supports many projects and programs related to service. Each Fall and Spring semester, students are trained as **America Reads** tutors and placed in area elementary schools. Each Fall, the center coordinates a volunteer fair and an **Into the Streets** service project. In the Spring, projects include **Make a Difference Tallahassee**, **Bowl Service Day**, and the **Nonprofit Careers Exposition**. The **Alternative Break Corps**, **International Medical Outreach**, and the **FSU Service Corps** are student organizations that are advised by the center. The Alternative Break Corps coordinates service trips during spring break to cities around the country. Participants eat, sleep, and work in the community they visit. The FSU Service Corps coordinates one-time projects while providing student leadership for many on-going service programs. The center continues The Florida State University tradition of working with the predominantly Hispanic community in Gadsden County by supporting the **Panhandle Area Education Consortium/Migrant Education Program**. There are also many partnerships with urban agencies working with children, adults, and the elderly in Leon County. For additional information, contact: *Center for Civic Education and Service, Division of Student Affairs, 930 West Park Avenue, Tallahassee, FL 32306-4180; (850) 644-3342; Fax (850) 644-3362. Website: <http://www.fsu.edu/~service>; email: service@admin.fsu.edu.*

Assessment Services

For information concerning Assessment Services, please refer to the 'Office for Distributed and Distance Learning' section in "The University" chapter of this *General Bulletin*.

StudentsFirst

StudentsFirst is a walk-up information and service counter located in the ground floor lobby of the *University Center Building A*. Students can ask questions about Financial Aid, Registration, Fee Payments, Admissions, and more. StudentsFirst staff will assist students and direct them to the office and personnel who can handle their specific problems. Students also may use StudentsFirst kiosks to access a variety of other self-service information. There are 15 kiosks in various locations around campus.

Students can now find and print more information than ever directly from the Internet. Some of the services include semester grades, unofficial transcripts, class schedules, and student account status. You also can change your address, view the status of your financial aid disbursement, and make payments using your FSUCard, credit cards or e-checks. Please visit our website at <http://www.studentsfirst.fsu.edu>.

Food Service

FSU Dining Services manages the following food facilities located in the Union and throughout the campus: Athletic Training Table, Crossroads Dining Hall, Cyberwraps, Union Market Cafe, Java Blues, Stone Willy's Pizza, 2 Chick-Fil-A locations, Burger King, Pizza Hut Express, Club Downunder, Bagel Basket, SubCity, Barrister's, Food Court, Trading Post, Bubble Tea, and Far East Fusion. The various locations and meal hours provide students with convenience and the freedom from cooking or finding restaurants. Several different affordable meal plans are available, including an all-you-care-to-eat option at the Crossroads Dining Hall. Balanced menus ensure finding healthy food items that meet dietary requirements. The food service office is located on the ground floor of the Oglesby Union, or may be reached by writing: *FSU Dining Services, P.O. Box 67018, The Florida State University, Tallahassee, FL 32313*. You also can find out more information by visiting our website at <http://sodexhomarriott.fsu.com>.

Health Care

All students are encouraged to check out the Thagard Student Health Center web page at <http://www.tshc.fsu.edu> for more complete information, or call (850) 644-6230.

Thagard Student Health Center provides primary out-patient medical care to students and their dependents 13 years and older. Currently enrolled, fee-paying students are not charged for office visits. Additional services such as procedures, lab, x-ray, pharmacy and physical therapy are provided at less than market rates. Services include urgent care, general medical care, gynecology, psychiatry and allergy clinics, immunization, nutrition and health enhancement, anonymous HIV testing, lab, x-ray, pharmacy and physical therapy.

Thagard's clinical staff includes board-certified physicians, psychiatrists, advanced registered nurse practitioners and registered nurses. The health center has over 80 full time employees and 50 part-time and student staff members.

All students are encouraged to have insurance coverage. International students with F-1, F-2, J-1 or J-2 visa status **must** meet federal and state mandates and have insurance coverage. The Florida State University offers a reasonably priced policy that meets these requirements. All students are encouraged to visit our insurance office to obtain information about available policies or check out our website or call (850) 644-4250. Medical care outside the health center facility is the financial responsibility of the student.

All students must meet State Board of Education immunization requirements. Health history forms are mandatory for all registered students.

If students are interested in joining a student organization that can make a difference, consider Thagard's Student Health Advisory Resource and Education Team. This committee meets at least once a month to make recommendations and give opinions to administration regarding health center policies and the needs of our students.

Thagard Student Health Center sponsors the **Partnership for Alcohol Responsibility (PAR)** project to work with community representatives toward changing campus culture regarding alcohol and how it is marketed to the Florida State University community. PAR is funded by the Robert Wood Johnson Foundation and the Harvard School of Public Health Study.

Counseling Services

The **Student Counseling Center**, a department in the Division of Student Affairs, provides counseling programs and services to help students maintain or achieve a healthy state of mind, enabling them to function academically to the best of their ability. Individual counseling is offered on a time-limited basis; group counseling is unlimited. These services are available to all fee-paying FSU students and to TCC students who purchase a health card. Students who are aware that they will require long-term treatment are encouraged to make arrangements for such care before entering the University; however the Student Counseling Center's staff will make referrals for ongoing treatment in the Tallahassee community, if necessary. Treatment outside the center will be at the student's expense. Initial visits are by appointment, except in cases of emergency. Records of visits to the Student Counseling Center are strictly confidential and are not included in the student's University records. Information concerning use of the center will not be released to anyone without written permission from the student involved unless there appears to be clear and present danger to the student or others. Outreach programs on a number of topics are available to faculty, staff, residence halls, sororities and fraternities by contacting the Outreach Coordinator.

The Student Counseling Center is located in the *Student Life Building, suite 201*. During Fall and Spring semesters hours of operation are Monday through Thursday 8:00 a.m. – 6:00 p.m. and Fridays, 8:00 a.m. – 5:00 p.m. During Summer, the hours of operation are Monday through Friday 8:00 a.m. to 5:00 p.m. To make an appointment, call (850) 644-2003 or come by the center. The Student Counseling Center is accredited by the International Association of Counseling Services.

The **Florida State University Psychology Clinic** provides scientifically supported therapy services for a variety of client concerns, including problems related to anxiety, depression, relationship issues, stress, and other personal issues. The clinic also conducts intellectual, academic, personality and learning disability evaluations.

Therapy fees are on a sliding scale that is based on the client's financial resources, and fees for assessments are at a low, flat rate.

Clinic therapists are graduate students seeking their doctoral degrees in the Clinical Psychology Program and all work is closely supervised by clinical psychology faculty.

To apply for services, call the clinic at (850) 644-3006. The clinic is located in the *Regional Rehabilitation Center Building, 2nd floor*. Hours are Monday – Thursday from 8:00 a.m. to 9:00 p.m., and Friday from 8:00 a.m. to 4:00 p.m.

Housing

The **Office of University Housing** makes available living accommodations for full-time, degree-seeking, fee-paying students. Residence hall staff members seek to create living environments that promote the personal and intellectual development of resident students. For more information, see the "Housing" chapter of this *General Bulletin*.

International Center

The **International Center (IC)** staff provides immigration and support services to international students, scholars, faculty and staff. IC advisers counsel students and scholars as to their obligations under the Department of Homeland Security (formerly Immigration and Naturalization Service) and United States Department of State rules, and serve as liaison between them and these agencies.

The IC also serves international students, visiting scholars, and their families by orienting them to the University and the community, and providing them counseling and referral in personal, social and financial matters. In addition, the IC offers programs that promote cultural awareness and understanding.

The center sponsors and encourages international programming throughout the campus. Ongoing programs sponsored through the center are the following: **International Friends Program**, a program that links international students with community people; **Small World Speakers Bureau**, a service that arranges for international students to speak on campus and in the community; **Global Gatherings**, a weekly brown-bag discussion series on international topics; the **International Women's Group**, a social support group for wives of international students; and the **International Bazaar**, an annual event featuring food, cultural displays and performances.

Beyond Borders: International Service and Cultural Exchanges with the University of Costa Rica, the University of the West Indies and the Technical University-Dresden (Germany) are also coordinated through the center. The International Center is located at *107 South Wildwood*. Call (850) 644-1702 or consult the website: <http://www.fsu.edu/~fsu-isc> for information.

Center for Academic Retention and Enhancement (CARE)

The Florida State University is committed to recruiting, retaining, and graduating first generation college students who demonstrate a strong potential for success, but who may otherwise not have the opportunity to attend college due to economic, educational, or cultural circumstances. The Center for Academic Retention and Enhancement was established to help fulfill these goals.

The **Center for Academic Retention and Enhancement (CARE)**, administers the **CARE Summer Bridge Program**, as well as the federally funded Student Support Services Program which assists low-income students with special academic and personal support services. The Florida State University's pre-collegiate programs, including the Upward Bound Program and the College Reach Out Program are administered through this center as well. CARE introduces students to the responsibilities and opportunities of college life, encourages the development of useful study habits, and assists students in recognizing their potential for success. The center provides a caring environment for students to discuss their academic, personal, and/or social concerns with a friendly, supportive staff.

College Programs

The **Student Support Services Program (SSSP)** is a federal TRIO grant program that provides opportunities for academic development and assists FSU students in motivating them to successfully complete their post-secondary education. The goal of SSSP is to increase the college retention rate and graduation rates of its participants and to facilitate the process of transition from one level of higher education to the next.

Pre-Collegiate Programs

College Reach Out Program is a state-funded program established to identify, motivate, and prepare disadvantaged middle and high school students to pursue post-secondary education.

University Experience Program is a two-week summer residential program designed to give selected disadvantaged high school juniors and seniors an opportunity to gain exposure to college life. Students receive verbal and math skills instruction in preparation for the Scholastic Achievement Test (SAT), which they take at the beginning and end of the program. They also participate in cultural enrichment and leadership activities.

Upward Bound Program (located at James A. Shanks High School in Quincy, Florida) is a federally-funded program that serves high school students from low socio-economic backgrounds. The UBP staff helps students develop academic skills and encourages them to complete high school, and continue their formal education at the college or university of their choice.

Parking and Bus Services

The **Office of Parking and Transportation Services** is responsible for the administration of the parking and transportation program on campus. The University requires students, staff, and faculty who want to park on campus to display a valid Florida State University parking permit. Temporary permits are available when needed. Enforcement hours are from 7:30 a.m. to 6:30 p.m., Monday through Thursday, and 7:30 a.m. through 4:30 p.m. on Fridays. Permits are distributed by the Student Financial Services located at *University Center A1500*, 8:30 a.m. to 4:30 p.m., Monday through Friday.

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

Parking is extremely difficult on the University campus. It is suggested that students walk, bike, or use the **Seminole Express**, the University's free campus bus service. Students may park in the Campbell Stadium lot where buses pick up at ten-minute intervals and deliver students to the campus. The buses operate from 7:30 a.m. to 6:00 p.m., Monday through Friday. Students with valid IDs may ride the Free Fare buses on TalTran's (city of Tallahassee public transportation) designated bus stops within the city.

Bicycle Parking

In accordance with the Florida Americans with Disabilities Act of 1993, the State of Florida Fire Marshal's Rules and Regulations and University rules, it is unlawful and dangerous to park bicycles in locations where they impede pedestrian or vehicular traffic. Prohibited areas include: 1) any area within six feet in front and to the side of any entrance to or exit from any building; 2) within any sidewalk; 3) on any access or egress ramp, steps, stairs or handrails; 4) in corridors; and 5) within any roadway or motor vehicle parking spaces.

The Florida State University Police Department is authorized to cut security chains and remove for impoundment any bicycle parked or stored in violation of this rule.

Any person whose bicycle has been impounded may claim that bicycle within thirty (30) days of impoundment by contacting the Florida State University Police. The burden of proving ownership shall rest upon the person claiming the bicycle. Bicycles not claimed within thirty (30) days shall be considered abandoned and will be disposed of in accordance with State and University rules governing abandoned property. For more information on bicycle registration, where to park your bike and how to operate it safely, please contact the Florida State University Police at (850) 644-1234. Regulations governing parking on campus, bus routes, and schedules are available upon request from: *The Office of Parking and Transportation, UCC 2300, Tallahassee, FL 32306-2650.*

Postal Services

All United States postal services, except COD, are available at the **University Post Office**. Residence hall students are assigned post office box numbers with their room assignments. If they subsequently move off campus, however, arrangements should be made with the University Post Office for continued use of the post office boxes. Students may rent a post office box at \$16.00 each term, \$32.00 a year. All students holding University Post Office boxes should notify the University Post Office of any change of address.

The **Union Copy Center** provides the following services: facsimile service; color copier service; card operated copiers, quick copy service. The center is open from 8:00 a.m. to 5:00 p.m.

Public Safety

The 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 vehicle, bicycle, and foot patrol of the campus 24 hours daily. Campus police, all sworn law enforcement officers, 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.

The Florida State University's *Seminole Safety Guide*, in compliance with the Campus Security Act of 1990, is published and distributed annually at orientation sessions and in the residence halls. The *Safety Guide* describes all safety programs and security services available at the University and contains safety tips and emergency telephone numbers. Copies are available through the FSU Police Department. The safety guide is available on the web at <http://www.vpfa.fsu.edu/safetyguide.html>.

Student Government's newest affiliated project is the **Bicycle/Pedestrian Program**. Its purpose is to improve bicycling and walking conditions on campus. The program will sponsor a Bike and Pedestrian Safety Week, register bikes with The Florida State University Police and promote environmentally-safe transportation options for students. The office is located at A3909 *Oglesby Union*. (850) 644-2925.

SAFE Connection provides several free services to all FSU students and faculty. SAFE Connection escorts students to and from all areas on campus and selected off campus locations. SAFE Connection hours of operation are from dark until 3:00 a.m. Please don't drink and drive; call 644-SAFE and let SAFE Connection get you home safely.

The **Blue Light Trail**, composed of 266 strategically placed light poles with emergency call boxes, provides well-lighted pathways around campus; additional light poles currently are under construction as part of ongoing renovation and

Partnership for new 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.

Radio and Television

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

Students at The Florida State University interested in a career in broadcasting are encouraged to participate in the stations' 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 The 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—the Voice of Florida State—is a student-run radio station sponsored by the Student Government Association. It serves two purposes: to supply the student body with music and information not available on other local radio stations, and to train The Florida State University students in the basic concepts of broadcasting and radio station management. WVFS also airs specialty shows, news and sports pertinent to University students, and all Lady Seminole basketball games.

Anyone enrolled at The Florida State University or in the FAMU/FSU Cooperative Program is eligible to work for WVFS. Most staff members work on a volunteer basis; however, in some instances class credit can be earned through a Department of Communication course. Students with writing, sales, public relations, accounting, and audio production skills are welcome. Six students also serve on the nine-member board of directors.

The **FSU Video Center** maintains Seminole Cable Vision Channel 17, the Student Government 24 hour Movie Channel. The center also

provides VCRs and video cameras for student use, but these must be reserved. The center is always looking for new talent or for anyone interested in learning about its production assistant program. No experience is necessary. (850) 644-1800; Movie Request Line (850) 644-1888.

Recreation and Sports

The **Campus Recreation Office** encourages students, faculty, and staff to be involved in recreational sports through its intramural, extramural, aquatic, fitness and outdoor pursuits programs. On-campus recreational facilities are located primarily in the **Bobby E. Leach Recreation Center**. The center offers basketball, racquetball, and squash courts; a swimming complex; jogging track; whirlpools; and health bar. Several weight-training and fitness rooms are furnished with state-of-the-art equipment. Nearby, students have access to intramural fields, outdoor track and tennis courts, and an Olympic-sized pool located in the center of campus near *Oglesby Union*. In addition, the University's 18-hole golf course of medium difficulty is nearby.

The **Seminole Reservation**, a 73 acre lakefront recreational facility, is located within five miles of the main campus. Here students may swim, fish, picnic, and camp. Students may rent sailboats or canoes and take lessons offered throughout the year. A challenge ropes course is provided for team building and leadership training. The reservation has conference room space available for meetings and retreats.

The **Intramural (IM) Office** is a resource for over 35 intramural programs. Separate divisions for various ability levels keep competition fair and fun. Coed programs and recreational divisions are designed for those who enjoy sport as a social activity. The office also hires students to officiate and to supervise intramural games.

Extramural sport clubs, more highly structured than intramural teams, compete with clubs from other universities. See the *Florida State University Student Handbook* for a list of clubs.

Through **Outdoor Pursuits**, students can snow ski, camp, canoe, white water raft, or be otherwise active in the outdoors. Trips, scheduled throughout the year, are open to students and the community.

Dean of Students Department

The primary focus of the **Office of the Dean of Students** is to support the academic mission of The Florida State University and the Division of Student Affairs by providing services, programs, resources and advocacy for the needs and interests of all students. This includes advocacy for students reporting alleged sexual harassment. Staff members provide educational opportunities for students to develop their values, decision-making skills, and leadership capabilities. For more information, contact Dean of Students Department at 4300A *University Center*, or call (850) 644-2428.

The **Student Disability Resource Center** is the primary advocate for students with disabilities. The SDRC staff monitor the environmental, social, and academic conditions affecting students with disabilities. They provide academic support services indicated by the student's disability, such as readers, note-takers, and sign language interpreters. Students may also receive assistance in registration and housing, and are offered information regarding community resources. The program provides on-campus transportation for persons with mobility impairments. The office maintains the **Theodore and Vivian Johnson Adaptive Technology Lab**, a facility housing computers and other devices that help students with disabilities successfully meet the requirements of their academic programs. For more information, contact the Student Disability Resource Center, *08 Kellum Hall*, or call (850) 644-9566.

The **Orientation Office** offers different sessions each year to accommodate the needs of incoming students. Every undergraduate student new to The Florida State University is required to attend an orientation session prior to enrollment. During orientation, students are given essential information regarding University policies and procedures, academic opportunities and requirements, and community values and standards. They also meet with an academic advisor and register for courses. Additionally, orientation participants have a chance to ask questions or discuss their concerns in small groups, which are led by trained student orientation leaders. For more information about the orientation program at The Florida State University, call (850) 644-2785.

The **First-Year Experience** (AMS 1363) is a one-credit-hour course offered only to first-time-in-college students and is coordinated by the Dean of Students Department and the American and Florida Studies Program. The class helps students to understand the importance of a liberal arts education, develop a framework for understanding their university experiences, and become more goal-oriented in their academic and extracurricular experiences. Students learn the history of The Florida State University, including the values of the institution, and explore the various University resources available to them. Faculty and administrators teach the course in small, seminar-style classes of approximately twenty students, and each group has access to a trained peer leader. Students may contact (850) 644-2428 to learn more about the First-Year Experience.

The **Office of Student Rights and Responsibilities** administers student disciplinary procedures in accordance with the Student Conduct Code and maintains official disciplinary 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 judicial procedures, call (850) 644-5136.

The **Withdrawal Services** staff provides advocacy for students and their parents when faced with the possible interruption of their University

enrollment. The office analyzes student situations to explore possible alternatives, and advises students of the policies and procedures to assist them in making informed decisions. Once the decision to withdraw has been made, staff evaluate fee and grade liabilities according to regulations, and centrally facilitate the processing of all paperwork through the appropriate University officials. The staff also maintains all the necessary and/or confidential records of completed withdrawals. For more information, call (850) 644-1741.

Staff of the **FSU Victim Advocate Program** provide advocacy to victims of crime. An advocate is on call twenty-four hours a day to respond to those Florida State University students who are victimized, and to any person victimized on the Florida State University campus. The services offered include emotional support, instructor notification, referral to counseling services, and educational programming for the campus community. For information call (850) 644-7161 or (850) 644-2277. After hours, call (850) 644-1234 and ask for an advocate.

The Office of Greek Life

The Office of Greek Life oversees the governing bodies of 25 fraternities and 22 sororities, the Interfraternity Council (IFC), the Multicultural Council (MCC), the National Pan-Hellenic Council (NPHC), and the Panhellenic Council. Fraternities and sororities at The Florida State University provide students with an opportunity to establish a sense of community and build a strong support group, while furthering the ideals of scholarship, leadership, service, and social development. For information call (850) 644-2428.

Student Government

The Student Government Association is the student's voice at The Florida State University. Its budget allocates approximately \$6.5 million of activity and service fees. These funds support the activities of the Student Senate and the executive branch, Student Government agencies, and numerous student organizations and University units. Elected and appointed officials enjoy many opportunities to acquire leadership and administrative skills and to learn about their fellow students and the University. (850) 644-1811.

The **Center for Participant Education (CPE)** is a free university that sponsors approximately 150 courses, as well as many films and speakers each semester. Volunteer instructors teach classes in social issues, creative expression, interpersonal relations, movement and exercise, sports, religion, and languages. The center's three Student Government-funded workshops—pottery, wood, and photography—are well equipped and open to students for a small materials fee. (850) 644-6577.

The purpose of the **FSU Service Corps** is to act as a liaison between the students and service organizations within the campus and community. The center's goal is to provide students with opportunities that will help to develop new skills, new interests and new friends—thereby enhancing the quality of their college experience. The

bureau is committed to providing the Florida State University students with quality volunteer experiences. For more information, contact (850) 644-0086.

The **Congress of Graduate Students (COGS)** is the representative body for graduate and professional students on campus. It offers travel grants to graduate students, sponsors programs, and acts as an advocate on their behalf. (850) 644-7166.

Students looking for a place to live are invited to consult the **Off Campus Housing Office**. The office provides students with apartment listings, roommate referral, renter's rights guides, and listings for subleases. Students who have a room or apartment to either sublease or rent, come by and we will list it for you. (850) 644-0089.

Student Publications annually produces the *Freshman Record*, which is a publication for incoming students, and *The Torch*, which informs students about the services offered by the Student Government Association. The office also designs websites, and it offers students opportunities to gain and improve their skills in graphic design (web and print), journalism and photography. (850) 644-0037.

Student Legal Services is an executive bureau of the Student Government Association, which enables students to attend three half-hour consultations per year with a participating attorney at no charge. Student Legal Services strives to ensure that all students have access to high quality legal advice and works diligently to provide students with the means they need to settle legal disagreements and other matters of concern without great personal cost. Student Legal Services can provide assistance with landlord/tenant disputes, criminal defense (DUI, assault and battery, traffic offenses, auto accidents and fake ID's), consumer complaints (contracted services, auto repair, and student-targeted scams), marital/family law, probation, credit/debt, personal injury and other general legal concerns. (850) 644-0083.

The **Women's Center** is a Student Government agency devoted to improving the quality of life for women students and to increasing awareness of the needs and concerns of all women. The center sponsors classes, discussion groups, speakers, films, and services that address social, educational, political, and economic concerns of women. The center also offers pregnancy counseling and serves as a referral agency to community resources. The **Women's Center Resource Library** has books, periodicals, newsletters, and reference files on feminism, birth control, women's health, and other related issues. (850) 644-6453.

The **Alumni Village Child Development Center** provides day care for the Florida State University students and faculty with children between the ages of 2 to 5 years. The center is also an excellent source for work experience in early childhood development and observational research. (850) 644-8305.

The **Starlight Child Care Center** provides after school child care for the Florida State University students and faculty with children between the ages of 3-12. The center is open daily from 3:15 till 10:15 p.m. Workstudy and practicum students are always welcome. (850) 644-3096.

Oglesby Union, Student Life Building, and Flying High Circus

The **Oglesby Union** is the center of student activity on campus, hosting a variety of cultural, educational, social, and recreational activities. Union facilities include a student activities center; an entertainment club; restaurants; study and television lounges; an arts center and gallery; a bowling, billiards, and games room; ticket office; automatic teller machines; information desk; student organization offices; meeting rooms; audi-

torium; and ballrooms. Located in the Oglesby Union complex are a travel center, hairstyling salon, post office, copy shop, and computer lab.

Another component of Oglesby Union is **Student Campus Entertainment**, a student-run organization whose members plan and produce a variety of entertainment experiences. Students participate in all facets of entertainment programming, including concert booking, movie scheduling, contract negotiation, security, catering, publicity, and advertising.

The **Office of Organizations and Leadership Services** provides student support services including a registry for clubs and organizations. Staff provide comprehensive leadership programs through "OLS Activities Council" and "Genesis."

The **Student Life Building** houses the Congress of Graduate Students (COGS), the National Pan-Hellenic Council (NPHC), University Housing

and Counseling Center. It also has a 400-seat theatre, a cyber cafe with computer games and the Java Blues Cafe.

The Florida State University's **Flying High Circus**, a component of the union, is one of only a few collegiate circuses in the nation. Founded in 1947, the circus has delighted audiences at home and abroad with skillful aerial and floor routines. Students work as their own riggers, put up the big top, spread sawdust, and string lights. Performers can receive one academic credit, but no academic scholarships or tuition waivers are available.

Office of Veterans' Affairs

The **Office of Veterans' Affairs** serves veterans and their dependents by providing information about work-study employment and referrals to counseling, medical, and other community resources. The Office of Veterans' Affairs is located within the Office of the University Registrar.



UNDERGRADUATE DEGREE REQUIREMENTS

Degrees Offered

The 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, 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 The 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 the Liberal Studies Program, and in consultation with their advisers select a major concentration. By the end of the sophomore year, all students should have completed at least half of the Liberal Studies Program including the composition and mathematics requirements in Areas I and II and passed the Florida College Level Academic Skills Test (Florida CLAST) or approved alternative.

At about the end of the sophomore year, students formally select a major and request acceptance by the college or school in which the major is taught. Students transferring into the University with an associate in arts (AA) degree from a Florida public community college or university, or transferring fifty-two (52) or more semester hours of credit, are admitted directly into the college or school of their choice.

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 or school 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 advisers regularly throughout their undergraduate years to ensure that they are making appropriate progress toward their degree and to consult their academic deans' offices, the Center for Advising Undeclared Students (CAUS), StudentsFirst Advising, and the Office of the University Registrar for assistance and clarification of degree requirements.

Baccalaureate Degree Requirements: An Overview

The 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*.

General Requirements

1. Satisfactory completion (a minimum adjusted grade point average of 2.0 on all courses used for liberal studies) of The Florida State University's Liberal Studies Program, thirty-six (36) semester hours, as follows:

Area I. Mathematics (six [6] semester hours)

Area II. English Composition (six [6] semester hours)

Area III. History/Social Science (six [6] to twelve [12] semester hours)

Area IV. Humanities/Fine Arts (five [5] to eleven [11] semester hours)

Area V. Natural Science (seven [7] semester hours)

For details, please see 'The Liberal Studies Program' of this chapter.

2. Satisfactory completion of Section 1007.25, Florida Statutes, the "Gordon Rule," requiring specific course work in composition and mathematics. Students are expected to demonstrate proficiency in the use of spoken and written English in all of their Universities;

3. Satisfactory completion of the Florida CLAST or approved alternative;

4. Satisfactory completion of major requirements in a chosen degree program, including additional requirements set by the college or school offering the degree. The student's degree program will appear on the baccalaureate diploma. If a student satisfies all requirements for two majors, including admission, prerequisite, core, etc., both degree programs may appear on the diploma;

5. A minimum adjusted grade point average (GPA) of 2.0 on all course work taken at The Florida State University and an overall 2.0 average on all college-level work attempted;

6. Successful completion of a minimum of one hundred twenty (120) unduplicated semester hours, only two (2) hours of which may be in physical education activity courses;

7. Completion of at least forty (40) semester hours in courses numbered 3000 and above;

8. Completion of the last thirty (30) semester hours in residence at this University. In cases of emergency, a maximum of six (6) hours of the final thirty (30) semester hours may be completed by correspondence or residence at another accredited senior institution with the approval of the academic dean. College-Level Examination Program (CLEP) credit earned may be applied to

the final thirty (30) hour requirement provided that the student has earned at least thirty (30) semester hours credit at The Florida State University;

9. Sixty (60) semester hours of the work credited toward a baccalaureate degree must be earned in an accredited senior institution;

10. Students who have entered a university in the State of Florida, Division of Colleges and Universities, with fewer than sixty (60) hours of credit in the fall of 1976 or any time thereafter are required to earn at least nine (9) hours prior to graduation by attendance in one or more summer terms at one of the eleven State of Florida senior institutions. The University President may waive the application of this rule in cases of unusual hardship to the individual. Students wishing waivers submit written requests giving the details of their hardships through their academic deans to the Dean of the Faculties; and

11. Successful completion of coursework constituting the student's program of studies, minor, honors thesis, or certification examination does not guarantee award of the baccalaureate degree. Faculty judgement of the academic performance of the student is inherent in the educational process in determining whether the award of the baccalaureate degree or admission into a higher level degree program is warranted.

Note: for the purpose of establishing residency, the various summer terms 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 or school may be found in the section of this *General Bulletin* describing that college or school. Major and minor requirements may be found under the appropriate department in the departmental listings.

Division of Undergraduate Studies

Dean: Karen Laughlin;
Associate Dean: Bruce Janasiewicz;
Assistant Deans: Gregory Beaumont, Linda Mahler

The Division of Undergraduate Studies is responsible for the supervision and monitoring of all 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), the Center for Advising Undeclared Students, the Center for Academic Retention and Enhancement (CARE), the University Honors Program, and the Center

for Retention and Academic Support, the Satellite and Off-Site Advising Office, and StudentsFirst Advising. For further information on these academic support offices see: 'Honors Program' in the "University Honors Program and Honor Societies" chapter, and 'Center for Advising Undeclared Students', the 'Center for Academic Retention and Enhancement', and the 'Center for Retention and Academic Support' in the "Academic Advising and Support Services" chapter of this *General Bulletin*.

Freshmen and sophomores have their programs and course work supervised by the Office of Undergraduate Studies. Exceptions to this placement are students accepted into the School of Music or into the bachelor of fine arts (BFA) program in theatre or dance. Students in these performance 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.

The Liberal Studies Program

As one of its primary goals, a university education should foster in the student a spirit of free inquiry into humane values, while developing the mind as an instrument of analysis and synthesis. Essential to the student's quest for knowledge and to responsible participation in society is an understanding of one's self and of the natural and social environment. The Liberal Studies Program is intended, therefore, to provide a perspective on the qualities, accomplishments, and aspirations of human beings, the past and present civilizations they have created, and the natural and technological world they inhabit. The Liberal Studies Program, designed to ensure breadth in the student's academic experience, while at the same time affording flexibility in satisfying requirements, may be extended throughout the undergraduate years with the exception of Areas I and II. The five areas of liberal studies provide students with essential competencies and introduce the student to broad areas of knowledge.

Students are required to complete (or be exempted from with credit) a minimum of six (6) semester hours of mathematics and six (6) semester hours of English composition, six (6) to twelve (12) semester hours in social science/history, five (5) to eleven (11) semester hours in humanities/fine arts, and seven (7) semester hours in natural science (one course must be accompanied by a scheduled laboratory) for a total of thirty-six (36) semester hours.

Liberal Studies Requirements

The liberal studies requirements must be met by completion of appropriate course work or by combination of course work and credit by examination within the limits set below:

1. **Credit by Examination.** A maximum of thirty (30) semester hours of credit earned through examination may be applied to the liberal studies requirements;

2. **Course Work.** An overall 2.0 average or better is required for course work used to satisfy the liberal studies requirements.

3. To satisfy the requirements of The Florida State University for Section 1007.25, Florida Statutes, students must also earn a grade of "C-" or better in each of the courses used to fulfill the liberal studies requirements in Area I (mathematics), Area II (English composition), and four more liberal studies courses designated by the Undergraduate Policy Committee as requiring 3,000 words of writing (courses indicated with a "W");

4. Courses listed as "directed individual study" (DIS), "senior honors thesis," or "senior seminar" cannot apply to the Liberal Studies Program;

5. No course may be applied to more than one area of the program;

6. No courses taken on a satisfactory/unsatisfactory (S/U) basis may apply to the liberal studies requirement;

7. A student who transfers to The Florida State University from a Florida public community/junior college or senior institution will be deemed to have satisfied the University's liberal studies requirement if all general education requirements stipulated by the community/junior college or senior institution have been met and the student's transcript has been so marked; and

8. A course approved for liberal studies credit at the time the course was completed will meet liberal studies requirements, even if the course was not listed as a liberal studies course in the *General Bulletin* under which the student entered.

Courses for the Liberal Studies Program shall be selected from the following five areas. Students should check departmental curriculum listings to determine prerequisites and course duplications prior to taking courses.

Note: some students will be required to take preparatory course work prior to enrollment in English composition and/or mathematics courses. See 'Required Preparatory Courses' in the "Office of the University Registrar" chapter of this *General Bulletin*.

Area I. Mathematics

Students must complete (or be exempted from with credit) at least six (6) semester hours in mathematics. Eligible students will enroll, as space permits, in three (3) semester hours in the Department of Mathematics during their first regular length term on campus and continue with the course until it has been completed. All six (6) semester hours of the mathematics liberal studies requirement should normally be completed by the end of the sophomore year.

Students must complete three (3) semester hours in the Department of Mathematics and three (3) additional semester hours in the Department of Mathematics or the Department of Statistics, or take a course from a list approved by the Faculty Senate and maintained by the Office of Undergraduate Studies.

Area II. English Composition

Students must complete (or be exempted from with credit) at least six (6) semester hours in English composition. All students, with such exceptions as have been or may be established by the Faculty Senate, shall complete the required English writing courses during their first academic year in residence at The Florida State University or must show exemption from six (6) semester hours of freshman writing courses. Each of these courses will require 6,000 words of writing. All courses used to satisfy this requirement (Section 1007.25, Florida Statutes) must be completed with a grade of "C-" or higher.

Students must complete either ENC 1101 (or 1121) and a second course from the following list. Most students take ENC 1102 (or 1122) as the second course.

ENC	1101W	Freshman Composition and Rhetoric (3)
ENC	1102W	Freshman Writing About Literature (3)
ENC	1121W	Freshman Composition and Rhetoric: Honors (3)
ENC	1122W	Freshman Writing About Literature: Honors (3)
ENC	1142W	Freshman Imaginative Writing Workshop (3)
ENC	1144W	Freshman Article and Essay Workshop (3)
ENC	1145W	Freshman Special Topics in Composition (3)
HIS	1003W	Writing for History (3)

Additional courses may be approved and added to the above list from time to time.

Area III. History/Social Science

Students must complete six (6) to twelve (12) semester hours, including a minimum of three (3) semester hours of history and three (3) semester hours of social science.

History

AFH	1000xW	African History and Civilization (3)
AMH	1000W	American Civilization (3)
AMH	1091yW	The African American Experience in the United States (3).
AMH	2095yW	The American Indians and the United States (3).
AMH	2096yW	Black Women in America (3)
AMH	2097yW	Nationality, Race, and Ethnicity in the United States (3)
ASH	1044xW	Middle Eastern History and Civilization (3)
ASH	3100xW	History of Asia (3)
EUH	2000W	Ancient and Medieval Civilizations (3)
LAH	1093xW	Latin America: A Cross-Cultural History (3)
WOH	1023W	The Modern World to 1815 (3)
WOH	1030W	The Modern World Since 1815 (3)

Social Science

AFA	3101yW	Theory and Dynamics of Racism and Oppression (3)
ANT	2410x	Introduction to Cultural Anthropology (3)
ANT	3141x	World Prehistory (3)
ANT	3212x	Peoples of the World (3)
CCJ	2020	Introduction to Criminal Justice (3)
CCJ	3011	Criminology (3)
CPO	2002x	Introduction to Comparative Government and Politics (3)
ECO	2000	Introduction to Economics (3)
ECO	2013	Principles of Macroeconomics (3)
ECO	2023	Principles of Microeconomics (3)
FAD	2230	Family Relationships: A Life Span Development Approach (3)
GEA	1000x	World Geography (3)
GEO	1331	Environmental Science (3)
GEO	1400x	Human Geography (3)
INR	2002	Introduction to International Relations (3)
ISS	2937rW	Social Science Honors Seminar (3) For honors students only.
PAD	3003	Public Administration in American Society (3)
POS	1041	American Government: National (3)
POS	2001	Introduction to Political Science (3)
POT	3003	Introduction to Political Thought (3)
PSY	2012	General Psychology (3)
PUP	3002	Introduction to Public Policy (3)
SOP	3004	Social Psychology (3)
SYG	1000	Introductory Sociology (3)
SYG	2010y	Social Problems (3)
SYO	3100y	Family Problems and Social Change (3)
URS	1006x	World Cities: Quality of Life (3)

Area IV. Humanities/Fine Arts

Students must complete five (5) to eleven (11) semester hours. One course must meet the literature requirement. Courses meeting the literature requirement are marked by an asterisk.

AFA	2000W	Introduction to the Afro-American Experience (3)
*AML	2011W	American Authors to 1875 (3)
*AML	2600yW	Introduction to African-American Literature(3)
*AML	3024W	American Authors Since 1875 (3)
*AML	3311W	Major Figures in American Literature (3)
*AML	3630yW	Latino/a Literature in English (3)
*AML	3682yW	American Multi-Ethnic Literature (3)
*AMS	3310W	Changing Concepts of the American Character (3)
AMS	3810W	The Life of the Mind in America (3)
ARH	2000W	Art, Architecture, and Artistic Vision (3)

ARH	2090xW	Great Discoveries in World Archaeology (3)
ARH	2521CyW	Survey in African-American Art and Aesthetics (3)
ARH	3056W	History and Criticism of Art I (3)
ARH	3057W	History and Criticism of Art II (3)
ARH	3130W	Survey of Greek Art and Archaeology (3)
ARH	3150W	Art and Archaeology of Ancient Italy (3)
ARH	3530W	The Arts of Asia (3)
ART	2003CW	Survey of Studio Art Practices (3)
*CLA	2010W	Introduction to Greek and Roman Civilization (3)
*CLA	2110W	The Greek Way: Introduction to Greek Civilization (3)
*CLA	2123W	The Roman Way: Introduction to Roman Civilization (3)
CLA	3012y	Homosexuality in Antiquity (3)
*CLA	3501yW	Gender and Society in Ancient Greece (3)
CLA	3502yW	Women, Children, and Slaves in Ancient Rome: The Roman Family (3)
CLT	3041W	Word Building: Greek and Latin Elements in the English Vocabulary (3)
*CLT	3370W	Classical Mythology (3)
*CLT	3378xW	Ancient Mythology, East and West (3)
*CLT	3380W	Classical Drama and Its Influence (3)
CRW	3410W	Dramatic Technique (3)
DAN	2100W	Introduction to History and Appreciation of Dance (3)
#DAN	3144W	History and Philosophy of Dance (3)
		or
#DAN	3145W	History and Philosophy of Dance (3)
		or
#DAN	3146W	History and Philosophy of Dance (3)
ENG	3110W	Film Genres (3)
ENG	3115W	Film Theory and Criticism (3)
*ENL	2012W	British Authors: Beginnings to 1790 (3)
*ENL	2022W	British Authors: Early Romantics to the Present (3)
*ENL	3334W	Introduction to Shakespeare (3)
FIL	2001	Introduction to Film (3)
*FOW	3240yW	Literature and Sexuality (3)
FRT	3561yW	French Women Writers (3)
FRW	3391r	French Cinema (3)
*GET	3130yW	Masterpieces of German Literature in Translation: 19th and 20th Centuries (3)
GEW	3391rW	German Cinema (3)
*HUM	2221W	Humanities: Homer to Gothic (3)
*HUM	2235W	Humanities: From the Renaissance to the Enlightenment (3)

*HUM	2250W	Humanities: 18th-Century Romanticism to Postmodernism (3)
HUM	2937rW	Humanities Honor Seminar (3) For honors students only.
HUM	2944r	University Honors Colloquium (1) For honors students only.
HUM	3321yW	Multicultural Dimensions of Film and 20th-Century Culture (3)
*HUM	3324xW	Cultural Imperialism (3)
*HUM	3413xW	Humanities: South Asian (3)
*HUM	3416xW	East Asian Humanities (3)
*HUM	3800W	Humanities: Principles of Criticism and Appreciation (3)
*ITT	3430W	Masterpieces of Italian Literature in Translation (3)
ITW	3391rW	Italian Cinema (3)
*LIT	2020W	Introduction to the Short Story (3)
*LIT	2081W	Contemporary Literature (3)
*LIT	2189xW	Introduction to Global Literature in English (3)
*LIT	3043W	Modern Drama (3)
*LIT	3383yW	Women in Literature (3)
MUH	2011W	Introduction to Music History-Music Appreciation: 18th and 19th Centuries (3)
MUH	2012W	Music in Western Culture, 19th and 20th Centuries (3)
MUH	2019y	Modern Popular Music (3)
#MUH	2051xW	Music Cultures of the World-Criticism of Tribal and Folk Cultures (3)
		or
#MUH	2052xW	Music Cultures of the World II-Ritual and Art Music of the Non-Western World (3)
MUH	3053yW	Minority Musics in North America (3)
MUH	3211W	Survey of Music History-Antiquity to 1750 (3)
MUH	3212W	Survey of Music History-1750 to the Present (3)
MUL	2110	Survey of Music Literature (2)
MUN	XXXX	Any undergraduate music ensemble with the prefix MUN. Credit toward the liberal studies requirement is limited to one (1) semester hour in each ensemble course.
MUT	1001	Fundamentals of Music Theory (3)
MUT	1011	Music Theory for the Non-Music Major (3)
PHH	3130W	Plato and His Predecessors (3)
PHH	3140W	Aristotle to Augustine (3)
PHH	3400W	Modern Philosophy (3)
PHI	2010W	Introduction to Philosophy (3)
PHI	2100W	Reasoning and Critical Thinking (3)
PHI	2630W	Ethical Issues and Life Choices (3)
PHI	3400W	History and Philosophy of Science (3)
PHI	3800W	Philosophy of the Arts (3)

*PHI	3882W	Philosophy in Literature (3)
PHM	2121y	Philosophy of Race, Class and Gender (3)
PHM	2300xW	Introduction to Political Philosophy (3)
PHM	3123yW	Philosophy of Feminism (3)
REL	1300xW	Introduction to World Religions (3)
REL	2121yW	Religion in the United States (3)
*REL	2210W	Introduction to the Old Testament (3)
*REL	2243W	Introduction to the New Testament (3)
REL	2315x	Religions of South Asia (3)
REL	3145yW	Gender and Religion (3)
REL	3170xW	Religious Ethics and Moral Problems (3)
REL	3505W	The Christian Tradition (3)
REL	3600W	The Jewish Tradition (3)
*RUT	3110yW	Russian Literature in English Translation (3)
*SPT	3130xW	Latin American Literature in Translation (3)
SPW	3391r	Hispanic Cinema (3)
THE	2000W	Introduction to Theatre (3)
*THE	2100W	Introduction to Theatre History (3)
THE	3061	Introduction to Theatre in London (3)
WST	3251yW	Women in Western Culture: Images and Realities (3)

#Note: on credit limit for music series MUH 2051–2052 and for dance series DAN 3144 – 3145 – 3146; credit toward liberal studies requirements will be given for only one course in each series.

Area V. Natural Science

Students must complete a minimum of seven (7) semester hours. One of the courses must be accompanied by a corresponding laboratory.

ANT	2511x	Introduction to Physical Anthropology and Prehistory (3)
ANT	2511L	Introduction to Physical Anthropology and Prehistory Laboratory (1)
AST	1002	Planets, Stars, and Galaxies (3)
AST	1002L	Introductory Astronomy Laboratory (1)
AST	3033W	Recent Advances in Astronomy and Cosmology (3)
BSC	1005	General Biology for Non-majors (3)
BSC	1005L	General Biology Laboratory for Nonmajors (1)
BSC	2010	Biological Science I (3) For science majors.
BSC	2010L	Biological Science I Laboratory (1)
BSC	2011	Biological Science II (3) For science majors.
BSC	2011L	Animal Diversity Laboratory (2) For science majors.
CHM	1020	Chemistry for Liberal Studies (3)

CHM	1020L	Chemistry for Liberal Studies Laboratory (1)
CHM	1030	Survey of General Chemistry (3)
CHM	1045, 1046	General Chemistry I, II (3, 3) For science majors.
CHM	1045C, 1046C	General Chemistry I, II (4, 5)
CHM	1045L, 1046L	General Chemistry Laboratories I, II (0,0)
CHM	1050, 1051	Honors General Chemistry I, II (3, 3) For science majors.
CHM	1050L, 1051L	Honors General Chemistry Laboratories I, II (1, 2) For science majors.
CHM	2200C	Survey of Organic Chemistry (4)
GLY	1000	Dynamic Earth (3)
GLY	1000L	Dynamic Earth Laboratory (1)
GLY	1040	How to Build a Habitable Planet (3)
GLY	1042	Planetary Geology (3)
GLY	1070	Living on the Water Planet (3)
GLY	1102	Dinosaurs and Disasters on an Evolving Earth (3)
GLY	1892W	Environmental Issues in Geology (3)
GLY	2010C	Physical Geology (4) For science majors.
GLY	2022C	Geology for Pre-service and In-service Teachers (4)
GLY	2100	Historical Geology (3)
GLY	2100L	Historical Geology Laboratory (1)
HUN	1201	The Science of Nutrition (3)
ISC	2003x	Global Change: Its Scientific and Human Dimensions (3)
ISC	2937rW	Natural Science Honors Seminar (3) For honors students only.
MET	1010	Introduction to the Atmosphere (3)
MET	1010L	Introductory Meteorology Laboratory (1)
MET	2101	Physical Climatology (3) For science majors.
MET	2700	General Meteorology (3) For science majors.
OCE	1001	Elementary Oceanography (3)
PCB	2099	Human Physiology (3)
PHY	1020	Fundamentals of Physics (3)
PHY	1020L	Fundamentals of Physics Laboratory (1)
PHY	2048C, 2049C	General Physics A, B (5, 5) For science majors.
PHY	2053C, 2054C	College Physics A, B (4, 4) For science majors.
PSB	2000	Introduction to Brain and Behavior (3)
PSC	2800C	Earth Science for EC/EE Teachers (4)
PSC	2801C	Physical Science for EC/EE Teachers (4)

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.

How Transfer Credit Applies to the Liberal Studies Program

The Office of Undergraduate Studies evaluates transfer credits as they apply to the Liberal Studies Program and loads the results into the SASS system. Students with the AA degree or General Education Statement from a Florida public senior or community college or other colleges with which The Florida State University maintains an official articulation agreement are exempted from the above evaluation.

The Multicultural Requirement

Students who would be truly educated must have an appreciation of the interrelatedness of and the diversity within cultural traditions. The multicultural understanding requirement recognizes and reflects the full range of human groupings and cultural perspectives as well as the complex relationships among them. Its role is to enhance students' self-understanding and their understanding of the contemporary cultural context, a context characterized by a rich diversity of cultures and experiences in which the Western European intellectual tradition figures as one among many.

Multicultural courses include cross-cultural studies (those courses marked with an "x") and diversity in Western experience (those courses marked with a "y"). All students who enter the University with fewer than sixty (60) semester hours must complete at least one "x" and one "y" course. Students transferring to the University with sixty (60) credits or more must complete one multicultural course from either designation. These courses may be taken as part of the liberal studies requirement or as electives or as part of a student's major.

The multicultural requirement must be completed with the grade of "C–" or higher prior to the receipt of the baccalaureate degree.

(X) Cross-Cultural Courses

AFH	1000	African History and Civilization (3)
AFH	4302	North African History: A Survey (3)
ANT	2410	Introduction to Cultural Anthropology (3)
ANT	2511	Introduction to Physical Anthropology and Prehistory (3)
ANT	3141	World Prehistory (3)
ANT	3212	Peoples of the World (3)
ANT	3231	Introduction to Folklore (3)
ANT	3610	Language and Culture (3)
ANT	4241	Anthropology of Religion (3)
ANT	4323	Peoples and Cultures of Mexico and Central America (3)

ANT 4362	Peoples and Cultures of Southeast Asia (3)	LAH 4430	History of Mexico (3)	AML 3630	Latino/a Literature in English (3)	
ANT 4363	Japanese Society and Culture (3)	LAH 4470	History of the Caribbean (3)	AML 3682	American Multi-Ethnic Literature (3)	
ANT 4364	Chinese Society and Culture (3)	LAH 4600	History of Brazil (3)	AML 4604	The African-American Literary Tradition (3)	
ARH 2090	Great Discoveries in World Archaeology (3)	LAH 4748	Social Revolutionary Movements in Latin America (3)	AML 4680r	Studies in Ethnic Literature (3)	
ARH 2581	A Survey of "Tribal Arts" Past and Present (3)	LIT 2189	Introduction to Global Literature in English (3)	ARH 2521C	Survey in African-American Art and Aesthetics (3)	
ARH 3582	Arts and Cultures of the South Pacific (3)	MUH 2051	Music Cultures of the World—Music of Tribal and Folk Cultures (3)	ARH 4601	Native American Arts and Architecture of the Southwest (3)	
ARH 4523	West African Art and the Diaspora: Brazil, Haiti, the United States and Suriname (3)	MUH 2052	Music Cultures of the World II—Ritual and Art Music of the Non-Western World (3)	ARH 4680	American and Ethnic Folk Art (3)	
ARH 4583	The Arts of Oceania, Africa and Native America (3)	MUH 2512*	Music Cultures of the World I (2)	CCJ 4662	Minorities, Crime and Social Policy (3)	
ARH 4585	Arts and Architecture of Polynesia (3)	MUH 2513*	Music Cultures of the World II (2)	CCJ 4663	Female Crime and Delinquency (3)	
ASH 1044	Middle Eastern History and Civilization (3)	*Students must take MUH 2512 and MUH 2513 or one of them and MUN 2491r or 4494r		CLA 3012	Homosexuality in Antiquity (3)	
ASH 3100	History of Asia (3)	MUH 4572	Music of Japan (3)	CLA 3501	Gender and Society in Ancient Greece (3)	
ASH 4223	Modern Middle East (3)	PHM 2300	Introduction to Political Philosophy (3)	CLA 3502	Women, Children, and Slaves in Ancient Rome: The Roman Family (3)	
ASH 4520	Traditional India (3)	PRT 3391	Brazilian Literature and Film in Translation (3)	CTE 3516	History of Clothing and Textiles II (3)	
ASH 4550	Modern India (3)	REL 1300	Introduction to World Religions (3)	EDF 2073	Diversity in and out of School: Multicultural Policies and Practices (3)	
CHT 3391	Chinese Cinema and Culture (3)	REL 2315	Religions of South Asia (3)	EDG 2701	Teaching Diverse Populations (3)	
CLT 3378	Ancient Mythology, East and West (3)	REL 3170	Religious Ethics and Moral Problems (3)	FOW 3240	Literature and Sexuality (3)	
CPO 2002	Introduction to Comparative Government and Politics (3)	REL 3340	The Buddhist Tradition (3)	FOW 3541	Gender and Race in Literature (3)	
CPO 3034	Politics of Developing Areas (3)	REL 3363	The Islamic Tradition (3)	FRT 3561	French Women Writers (3)	
CPO 3303	Politics of Latin America (3)	REL 4333	Modern Hinduism (3)	GEA 4405	Latin America (3)	
CPO 3403	Comparative Government and Politics: The Middle East (3)	RUT 3500	Modern Russian Life (3)	GET 3130	Masterpieces of German Literature in Translation: 19th and 20th Centuries (3)	
CPO 3512	Political Development in East Asia (3)	SPC 4710	Interracial/Intercultural Communication (3)	HUM 3321	Multicultural Dimensions of Film and 20th-Century Culture (3)	
CPO 3520	Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3)	SPN 3520	Cultures of Latin America (3)	LEI 1181	Leisure and Recreation: A Cross-Cultural Approach (3)	
CPO 3541	Politics of China (3)	SPT 3130	Latin American Literature in Translation (3)	LIS 2568	Multicultural Issues in Information Resources for Youth (3)	
CPO 3553	Politics of Japan (3)	THE 4432	Latin American and Caribbean Theatre (3)	LIT 3383	Women in Literature (3)	
CPO 3614	East European Politics (3)	THE 4438	African Theatre and Performance (3)	LIT 4329	African American Folklore (3)	
CTE 3515	History of Clothing and Textiles I (3)	URP 4618	Planning for Developing Regions (3)	LIT 4385	Major Women Writers (3)	
ECS 3003	Comparative Economic Systems (3)	URS 1006	World Cities: Quality of Life (3).	MUE 2390	Teaching Music to Diverse Populations (3)	
ECS 4013	Economics of Development (3)	(Y) Diversity in Western Culture Courses			MUH 2019	Modern Popular Music (3)
FRT 3140	Masterworks of French Literature in Translation (3)	AFA 1003	Diversity and Justice (1)	MUH 3053	Minority Musics in North America (3)	
GEA 1000	World Geography (3)	AFA 3101	Theory and Dynamics of Racism and Oppression (3)	MUH 4541	Music of Latin America I (3)	
GEO 1400	Human Geography (3)	AFA 3395	Cultural Pluralism and Community Service (3)	MUH 4542	Music in Latin America II (3)	
GEO 4420	Cultural Geography (3)	AMH 1091	The African-American Experience in the United States (3)	MUH 4543	Music in the Caribbean (3)	
HHD 2152	Multicultural Perspectives in Residential Environments (3)	AMH 2095	The American Indians and the United States (3)	NUR 3040	Multicultural Factors and Health (3)	
HOE 3330	Human Sciences and Human Development: Global Perspectives (3)	AMH 2096	Black Women in America (3)	PET 4253	Lesbian and Gay Sport Studies (3)	
HUM 3324	Cultural Imperialism (3)	AMH 2097	Nationality, Race and Ethnicity in the United States (3)	PET 4254	Gender Issues in Sport and Physical Activity (3)	
HUM 3413	Humanities: South Asian (3)	AMH 4561	Women in 19th-Century America (3)	PHM 2121	Philosophy of Race, Class, and Gender (3)	
HUM 3416	East Asian Humanities (3)	AMH 4562	Women in Modern America (3)	PHM 3123	Philosophy of Feminism (3)	
HUN 2125	Food and Society (3)	AMH 4571	Black America to 1877 (3)	PUP 3323	Women and Politics (3)	
ISC 2003	Global Change: Its Scientific and Human Dimensions (3)	AMH 4572	Black America Since 1877 (3)	RCS 1065	Disability in Western Culture (3)	
LAH 1093	Latin America: A Cross-Cultural History (3)	AML 2600	Introduction to African-American Literature (3)	REL 2121	Religion in the United States (3)	
LAH 3411	History of Mexico, Central America, and the Caribbean (3)			REL 3145	Gender and Religion (3)	
LAH 3500	History of South America (3)			REL 3146	Gender and the Bible (3)	
				REL 3375	Afro-Caribbean Religions (3)	

RUT	3110	Russian Literature in English Translation (3)
SOP	3742	Psychology of Women (3)
SOP	3782	Psychology of the African-American (3)
SOW	4108	Women's Issues and Social Work (3)
SOW	4620	Diversity in Social Work Practice (3)
SOW	4622	Social Work with Black Families (3)
SOW	4627	Mental Health of Diverse Populations (3)
SPA	2633	Deaf Culture (3)
SPC	4630	Rhetoric of Women's Issues (3)
SPC	4634	Rhetoric of Race Relations (3)
SYD	3800	Sociology of Sex and Gender (3)
SYD	4700	Race and Minority Group Relations (3)
SYG	2010	Social Problems (3)
SYO	3100	Family Problems and Social Change (3)
THE	4233	History of African-American Drama (3)
THE	4433	Gender, Race, and Performance (3)
URP	4402	Sustainable Development Planning in the Americas (3)
WST	3251	Women in Western Culture: Images and Realities (3)

Oral Communication Competency

Competency in oral communication is indicated by demonstrating the ability to transmit clearly ideas and information orally in a way that is appropriate to the topic, purpose, and audience. It also involves demonstrating the ability to discuss ideas clearly with others, to hear and respond to questions, and to assess critical response appropriately.

A student will satisfy the requirement for competency in oral communication in either of two ways:

1. Petition to have prior demonstration of oral communication competency accepted in place of an approved Florida State University course. Students may petition the Office of Undergraduate Studies to have prior demonstrations of oral communication competency accepted in place of a course at The Florida State University. Acceptable substitutes may include but not be limited to:

- A grade of "B" or above in a high school oral communication or speech class;
- Verified successful participation in a forensic or debate program in high school, community college, or college; or
- Passing with a "C-" or higher a course in public speaking or argumentation in another college or university (including community college).

The need for specific oral communication skills (such as formal lecture/presentation, interviewing skills, or group dynamics) will vary from dis-

cipline to discipline, and while a minimum level of oral competency is required, means of assessing such competency must remain flexible. Thus, several courses will be identified as including basic tests of oral competency and students passing these courses with a grade of "C-" or higher will automatically be assumed to have completed the requirement:

2. Earn a grade of "C-" or better in a course which has been approved by the Undergraduate Policy Committee for oral communication competence credit:

a) Earn a grade of "C-" or better in a course (1-3 semester hours) in the major or minor that has been certified by the Undergraduate Policy Committee as meeting the standards for oral communication competency; or

b) Earn a grade of "C-" or better in one of the following courses: SPC 1016, Fundamentals of Speech, or SPC 2600, Public Speaking.

Departments may elect to require one of the three listed communication courses.

Regardless of the vehicle, to complete the oral communication competency examination successfully, the student must demonstrate the ability to:

- Generate an original oral message which clearly presents ideas and/or information;
- Make effective use of both vocal and physical delivery in the presentation;
- Use standard American English;
- Adapt the presentation to the particular audience; and
- Be receptive to questions and/or criticism.

Courses in the oral performance of literature will not satisfy this requirement.

Currently Certified Courses

AFR	XXXX	Sequence of courses (see department for details)
CCJ	4209	Courts and Social Policy (3)
ECH	2050	Chemical Engineering Communication (2)
ECO	3004	Debating Economic Issues (3)
*EML	4551	Engineering Design Systems I (4)
and		
*EML	4552	Engineering Design Systems II (4)
*Note: both courses must be taken to satisfy the requirement.		
FIL	2110	Screenwriting I (3)
GEB	3213	Business Communications (3)
HEE	4054	The Educative Process (3)
HIS	1103	Speaking About History (3)
INP	4314	Advanced Topics in Performance Management (4)
MET	3940r	Weathercasting (1)
#MUE	3491	Communication Skills for the Musician: Choral (2)

and

#MUE 3495 Music Education Laboratory (1)

#Note: both courses must be taken to satisfy the requirement.

^MUE 3493 Communication Skills for the Musician: Instrumental (2)

and

^MUE 3496 Music Education Laboratory (1)

^Note: both courses must be taken to satisfy the requirement.

MUY 4402 Music Therapy: Methods and Practicum II (3)

NUR 3076 Communication in Health Care (3)

NUR 4642 Substance Abuse and the Effects on Health, Family and Profession (3)

PHY 3091 Communication in Physics (2)

PHY 4990 Senior Seminar (1)

SOW 3350 Interviewing and Recording in Social Work (3)

SPA 2020 Effective Oral Communication (3)

SPC 1016 Fundamentals of Speech (3)

SPC 2600 Public Speaking (3)

THE 2020 Introduction to Theatre for Majors (3)

Computer Skills Competency

All undergraduates at The Florida State University must demonstrate basic computer competency prior to graduation. The computer competency requirement may be satisfied in one of two ways:

1. Take and pass a course (or course combination) which has been approved for computer competency credit:

a) Take and pass one of the following: CGS 2060, Computer Literacy, or CGS 2100, Microcomputer Applications for Business and Economics.

b) Take and pass one of the courses in other departments which have been certified as providing computer competency (these may possibly be combinations of two or more courses which collectively satisfy the competency requirement).

2. Demonstrate existing computer competency through a "skills certification" procedure that is provided by departments offering a course that has been approved for certified computer competency.

The need for specific computer competency skills vary from discipline to discipline, and while a minimum level of competency is required, means of assessing such competency must remain flexible. Thus several courses will be flagged as basic tests of computer competency, and students passing these courses with a grade of "C-" or higher will automatically be assumed to have completed the requirement. **Students are encouraged to complete this requirement early in their academic career, preferably during the freshman year.**

Regardless of the vehicle used to satisfy the computer competency requirement, students must demonstrate:

1. Basic familiarity with computer hardware, operating systems, and file concepts;
2. Working knowledge of a word processor or text editor and at least one other software application (e.g., spreadsheet, database, etc.); and
3. Working knowledge of the World Wide Web (WWW) and electronic mail.

Currently Approved Courses

BSC	2010L	Biological Science I Laboratory (1)
CGS	2060	Computer Literacy (3)
CGS	2100	Microcomputer Applications for Business/Economics (3)
CGS	3408	Introduction to Programming with the C Language (3)
CGS	3460	FORTRAN for Nonspecialists (3)
COP	2721	Introduction to Database Systems and Internet Services (3)
COP	3502	Introduction to Computer Science (3)
EEL	3705L	Digital Logic Laboratory (1)
EGN	2212	Engineering Statistics and Computation (3)
EME	2040	Introduction to Educational Technology (3)
EML	3002C	Mechanical Engineering Tools (4)
MUS	2360	Introduction to Technology in Music (1)
NUR	3167	The Research Process for Professional Practice (2)

Statewide Graduation Requirements

Two Florida statutes apply to the rules for academic progress to be followed by students in the state universities of Florida: the requirements of minimum communication and computation skills as stated in Section 1007.25, Florida Statutes; and the Florida CLAST. The requirements of these rules follow.

College-Level Communication Skills

Section 1007.25, Florida Statutes

Procedures. Students will satisfy the requirements of this rule by completing, with a grade of “C–” or better in each course, the liberal studies requirements in Area I (mathematics), Area II (English composition) and four more liberal studies courses designated by the Undergraduate Policy Committee as requiring 3,000 words of writing (courses indicated with a “W”). These requirements must be completed prior to receipt of an associate in arts certificate from The Florida State University or admission to upper division. For more information, see ‘Progression to Upper Division’ in the “Undergraduate Degree Requirements” chapter of this *General Bulletin*.

Exemptions, Waivers, Advanced Placement. A student shall be allowed to at least partially satisfy the mathematics requirement of Section 1007.25, Florida Statutes, through exemption in one of the following ways:

1. By scoring appropriately on an examination administered on campus by the Department of Mathematics;
2. By obtaining a score of at least 680 on the mathematics test of the SAT or the equivalent score (30) on the mathematics test of the Enhanced ACT; or
3. By satisfying College-Level Examination Program (CLEP) requirements in mathematics for postadmission exemptions of course work.

Any student who has satisfied CLEP requirements in mathematics and whose high school transcript shows successful completion of higher mathematics course work, including college algebra, trigonometry, and calculus shall be certified as having satisfied the computation requirement of Section 1007.25, Florida Statutes, though the student may still be required to complete the mathematics requirement for liberal studies.

An Advanced Placement calculus score of 3 or higher will satisfy the second mathematics course for Section 1007.25, Florida Statutes.

A student may also be allowed to satisfy the English component of Section 1007.25, Florida Statutes, through one of the following methods:

1. Students who score 650 or higher on the verbal portion of the Scholastic Assessment Test (SAT-1) or 29 or higher on the English portion of the Enhanced American College Testing Program test (ACT)—25 on the old test— will be granted three (3) semester hours of credit equivalent to ENC 1101;
2. For Advanced Placement (AP) scores of 3 on either English Language and Composition or English Literature and Composition a student will be awarded three (3) semester hours of credit for ENC 1101. A score of 4 or 5 on a single exam earns the student six (6) semester hours of credit for liberal studies and Section 1007.25, Florida Statutes.

Transfer Credits or Correspondence Credits. Students transferring to The Florida State University who have been certified by The Florida State University as having completed the requirements of the Liberal Studies Program by virtue of having received the AA degree from their previous institution will be deemed to have satisfied the requirements of Section 1007.25, Florida Statutes.

Students transferring from other institutions which come under the provision of Section 1007.25, Florida Statutes, but who have not received the AA degree will be deemed to have satisfied the requirements of Section 1007.25, Florida Statutes, if the previous institution indicates, by notation on the transcript or by some other form of written certification, that the student has satisfied the rule before leaving that institution.

Transferring students who do not fall into either of the above categories will be required to satisfy The Florida State University Plan for Section 1007.25, Florida Statutes.

Courses taken by correspondence will be treated in the same manner as courses accepted for transfer.

Florida College Level Academic Skills Test

The Florida CLAST is required by Florida statutes and rules of the State Board of Education for the admission of students to upper-division status in the state universities of Florida. Students may take the Florida CLAST in the first term of enrollment or any term thereafter, but students who have completed or are completing their sophomore year in college and who are seeking admission to upper-division programs in state universities in Florida must present CLAST scores. Transfer students admitted directly to baccalaureate degree programs who have not completed the Florida CLAST must register for and take the Florida CLAST prior to or during the first term of enrollment.

Beginning January 1st, 1996, the following alternatives have been approved to meet statewide requirements of the Florida CLAST. **Students who plan to major in a teacher education program must take and achieve a passing score on all sections of the CLAST. This requirement cannot be waived or met by alternative means.**

1. Any student who achieves a cumulative grade point average of 2.5 or above, on a 4.0 scale, in postsecondary-level in English and mathematics coursework identified by The Postsecondary Education Planning Commission, shall be exempt from the requirement for passing the CLAST subtest in question.
2. SAT I (re-centered) Scores: any student who achieves a math score of 500 or above has satisfied the Computation section; any student who achieves a verbal score of 500 or above has satisfied the reading, English language skills, and essay section requirements of CLAST.
3. Enhanced ACT Scores: students who achieve a score of 21 or above in mathematics have satisfied the computation section requirement of CLAST; students who achieve a score of 22 or above in reading have satisfied the reading section requirement of CLAST; students who achieve a score of 21 or above in English have satisfied the English language skills and the essay section requirement of CLAST.

Individual student scores will become a part of the permanent record of the student. Passing scores for students taking the Florida CLAST during the period of August 1986 through July 1989 are as follows: Reading—270; English Language Skills—270; Computation—275; Essay—4. Passing scores for students taking the Florida CLAST during the period August 1989 through September 1991 are: Reading—295; English Language Skills—295; Computation—285; Essay—4. Passing scores for students taking the Florida CLAST during the period October 1991 through September 1992 are: Reading—295; English Language Skills—295; Computation—290; Essay—5. Passing scores for students taking the Florida CLAST after September 30, 1992, are: Reading, English Language Skills, Computation—295; Essay—6.

Note: because of a change in the grading scale, students not passing the Essay subtest prior to October 1, 1991 must earn a minimum score of 5 to complete the Essay subtest requirement.

All subtests of the Florida CLAST must be passed by the term a student earns ninety-six (96) semester hours of credit. Students exceeding ninety-six (96) semester hours without passing the Florida CLAST will not be able to continue in major course work until appropriate scores have been achieved.

Students must register for and take the Florida CLAST prior to completing their sophomore year. The following skills will be measured:

Reading Skills

- Recognizing main ideas
- Identifying supporting details
- Determining meanings of words
- Recognizing author's purpose
- Distinguishing between fact and opinion
- Detecting bias
- Recognizing author's tone
- Recognizing relationships within and between sentences
- Recognizing valid arguments
- Drawing inferences and conclusions

Writing Skills

- Determining the purpose for writing
- Limiting the subject to the requirements of time, purpose, and audience
- Formulating a thesis statement
- Providing adequate and relevant supporting details
- Arranging ideas in a logical organizational pattern with effective transition between parts
- Using words that convey the meaning required by context
- Avoiding slang, jargon, clichés, pretentious expressions, and wordiness
- Placing modifiers correctly
- Coordinating and subordinating sentence elements
- Using parallel expressions for parallel ideas
- Avoiding fragments, comma splices, and fused sentences
- Using a variety of sentence patterns
- Avoiding unnecessary use of passive construction
- Avoiding awkward constructions
- Using standard verb forms
- Maintaining agreement between subject and verb, pronoun and antecedent
- Using proper case forms
- Using standard spelling, punctuation, and capitalization
- Maintaining a consistent point of view

Computational Skills: Algorithms

- Adding, subtracting, multiplying, and dividing real numbers, including rational numbers in decimal and fractional forms
- Rounding measurements
- Calculating distances, areas, and volumes
- Applying the order-of-operations agreement

- Using scientific notation
- Solving linear equations and inequalities
- Using given formulas to compute results without geometric measurement
- Identifying information contained in graphs
- Determining the mean, median, and mode
- Selecting the sample space associated with an experiment
- Deducing facts of set inclusion or set noninclusion from a diagram

Concepts

- Recognizing the meaning of exponents
- Recognizing the role of the base number in numeration systems
- Identifying equivalent forms of decimals, percents, and fractions
- Determining the order relation between magnitudes
- Recognizing horizontal, vertical, parallel, perpendicular, and intersecting lines
- Identifying relationships between angle measures
- Classifying simple plane figures by recognizing their properties
- Recognizing similar triangles and their properties
- Identifying types of measurement (linear, square, cubic) for geometric objects
- Recognizing and using abstract properties of operations
- Determining whether a number is among the solutions of a given equation or equality
- Recognizing statements of proportionality and variation
- Identifying regions of the coordinate plane which correspond to specific conditions
- Recognizing the properties of the normal curve
- Recognizing samples that are representative of a given population
- Identifying the probability of a specified outcome
- Identifying simple and compound statements and their negations
- Determining equivalence and nonequivalence of statements
- Drawing logical conclusions from data
- Recognizing invalid arguments with true conclusions
- Distinguishing between fallacious and nonfallacious arguments
- Recognizing proof by contradiction
- Identifying characteristics of tasks that computers perform well
- Identifying human functions necessary to use computers
- Identifying possible abuses of computer use

Computational Skills: Generalizations

- Inferring relations between numbers in general by examining number pairs
- Selecting applicable properties for performing arithmetic calculations
- Inferring formulas for measuring geometric figures
- Selecting applicable formulas for computing measures of geometric figures
- Inferring relations among variables
- Selecting applicable properties for solving equations and inequalities

Inferring relations and making accurate predictions from studying particular cases in probability and statistics

Inferring valid reasoning patterns and expressing them with variables

Selecting applicable rules for transforming statements without affecting their meaning

Computational Skills: Problem Solving

Solving real-world problems involving perimeters, areas, and volumes of geometric figures; the Pythagorean property; the normal curve; and probabilities

Solving real-world problems inviting the use of variables

Solving real-world problems that do not require the use of variables

Solving problems that involve the structure and logic of arithmetic and algebra

Drawing logical conclusions when facts warrant them

Most courses regularly taken by freshmen and sophomores involve the reading skills covered on the Florida CLAST. Writing skills are specifically addressed in the Liberal Studies Program by the courses in written communication listed under Area II, English Composition. Special instruction is available in the Reading/Writing Center of the Department of English. Many of the computational skills in arithmetic, geometry, and measurement should be mastered before the student enters the University, but assistance in reviewing these skills can be obtained through the Mathematics Help Center of the Department of Mathematics or through a community college course. All computational skills beyond that level are included in the following set of courses: CGS 3062; MAC 1105, 1140; MGF 1106, 1107; and STA 1013. For specific details about which skills are covered in particular courses, students should consult the Department of Mathematics. Special instruction in these skills is also available in the Mathematics Help Center.

CLAST Waiver Criteria

Section 1008.29 and (6), Florida Statutes, and State Board of Education rule 6A-10.0311(7) provide for a waiver of the passing score of a Florida CLAST subtest for students other than those with specific learning disabilities. A student is eligible to apply for a waiver of the passing score on the Florida CLAST if the student can demonstrate proficiency in the discipline of the appropriate subtest. A student who has failed a subtest of the Florida CLAST four (4) or more times but who also demonstrates proficiency in the discipline corresponding to the subtest may petition for a waiver with the student's academic dean. If the academic dean believes the student has demonstrated proficiency in the area of the failed subtest, the academic dean may request that the Committee on CLAST Waivers consider the student's appeal. The Florida State University President grants the waiver upon recommendation by the committee.

The Florida State University has adopted the following working definition of **proficiency**: proficiency in language ability generally means the

ability to use the language acceptably and correctly in the four skill areas of listening, speaking, reading, and writing.

Minimum Criteria for Eligibility for CLAST Waivers in the Communications Area for All Students

1. Completion of undergraduate English communication liberal studies courses at The Florida State University with a “C” or better regardless of first language. This requirement applies to all transfer students and those students native to The Florida State University;

2. At the time of the consideration by the Committee on CLAST Waivers, students must have earned a minimum cumulative grade point average of 2.25.

Minimum Criteria for Eligibility for CLAST Waivers in the Communications Area for Non-native English Speaking Students

1. All international students transferring to The Florida State University from any institution of higher education will submit a TOEFL score of 550;

2. All Florida public community college students transferring to The Florida State University without the associate of arts degree whose first language is not English must present a TOEFL score of 550.

Minimum Criteria for Eligibility for CLAST Waivers in the Computation Area for All Students

1. Completion of two of the following undergraduate mathematics liberal studies courses: MAC 1105, 1140; MGF 1106, 1107; or STA 1013 or the equivalent courses with a “C” or better. The University will continue to accept completion of MAC 1102 and MAC 1141 or MAC 1102 and MGF 1207 with at least a “C” as one factor in determining eligibility for a waiver of the passing score on the Computation subtest. **Students should not be advised to take CGS 2060 as a second mathematics liberal studies course if they are having difficulty passing the Computation section of CLAST.** This requirement applies to all transfer students and those students native to The Florida State University;

2. At the time of consideration by the Committee on CLAST Waivers, students must have earned a minimum cumulative grade point average of 2.25.

Progression to Upper Division

For progression to upper-division status at The Florida State University a student must meet the following minimum requirements:

1. Completion of at least sixty (60) semester hours of college credit;
2. Presentation of appropriate scores on the Florida CLAST or approved alternative;
3. Achievement of a minimum adjusted GPA of 2.0 on all work attempted at The Florida State University. **Note:** some degree programs require a higher GPA for admission to upper-division status;
4. 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 liberal studies curriculum, including English composition and undergraduate mathematics;
5. Students who began their college-level work on or after October 15, 1982, must complete a minimum of one-half of the required semester hours from the Liberal Studies curriculum, including courses fulfilling Section 1007.25, Florida Statutes (“Gordon Rule”). A minimum grade of “C-” is required in each of the courses used to fulfill Section 1007.25, Florida Statutes;
6. Acceptance by a college or school 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 (52) semester hours of transferable credit will be assigned to the Division of Undergraduate Studies. Students with fifty-two (52) 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 (75) semester hours of college work.

Transfer Among Colleges and Schools for Upper-Division Students

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

1. Obtain a signed approval form from the dean of the college or school to which the student wishes to transfer;

2. Obtain an approval signature on that form from the dean of the college or school from which the student wishes to transfer; and
3. Personally submit the original copy of the approved change form to the Office of the University Registrar.

The Associate in Arts

The associate in arts (AA) certificate may be granted through the Division of Undergraduate Studies to students who have completed sixty (60) semester hours with an adjusted GPA of 2.0 or better at The Florida State University and an overall 2.0 GPA on all college work attempted. A minimum of twenty (20) of the last thirty (30) semester hours of work must be earned in residence. Successful completion of the Liberal Studies Program with a 2.0 GPA or better and passing Florida CLAST scores or approved alternative are required for the AA certificate. Students beginning their college program January 1983 or later must also meet the requirements of Section 1007.25, Florida Statutes.

Students **cannot** apply for both an associate in arts certificate and a bachelor’s degree to be awarded in the same semester. Also, the associate in arts certificate cannot be awarded once a bachelor’s degree has been conferred.

The awarding of the AA certificate does not alter the calculation of the cumulative GPA at The Florida State University. Certification for the AA certificate in no way affects the requirements of individual colleges/schools for the completion of the major/minor for a baccalaureate degree.

Students interested in receiving the AA certificate and who are completing or have completed all the requirements listed above must officially apply at the Office of Undergraduate Studies.

Teacher Education

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 Preservice Teacher Preparation Programs, state that students planning to matriculate in a teacher education program at The Florida State University must: 1) Complete a sound liberal arts curriculum described below; 2) Take and pass the CLAST; and 3) Acquire a passing score on the professional knowledge and subject area test on the Florida Teacher Certification Exam (FTCE) prior to completion of program requirements. 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 “General Requirements” described earlier in this chapter of the *General Bulletin*.

Note: students should consult with an advisor to determine how to simultaneously satisfy The Florida State University liberal studies requirements and the teacher preparation general education core curriculum requirements.

Teacher education liberal arts curriculum must include the following:

Mathematics:

Nine (9) semester hours in mathematics to include college algebra or above and geometry;

English:

Nine (9) semester hours in English to include writing, literature, and speech;

History/Social Sciences:

Twelve (12) semester hours in social sciences to include American history and general psychology;

Humanities/Fine Arts:

Six (6) semester hours in humanities to include philosophy and fine arts;

Natural Sciences:

Nine (9) semester hours in science to include earth science, life science, and physical science, with a minimum of one associated laboratory.

The Baccalaureate Degree

The Florida State University's general requirements for all baccalaureate degrees (bachelor's degrees) are listed at the beginning of this chapter under "General Requirements."

Graduation Checks

All undergraduate students must request a graduation check from the Office of the University Registrar, Graduation Section, *A3900 University Center*. This check will be an overview of university requirements needed for graduation. This request should be made at the time the student has earned ninety (90) semester hours of credit or **two terms** prior to the planned graduation date. Florida CLAST scores must appear on the transcript.

Request for a graduation check of major requirements must be made to the student's academic dean **one term** prior to graduation. If a graduation check has not been requested by the time the student reaches one-hundred ten (110) semester hours, a stop will be placed on the student's future registration.

Application for Graduation

Application for a degree must be made to the Office of the University Registrar by the date stated in the academic calendar in this *General Bulletin*

during the term in which the student expects to graduate. If the student is unable to graduate at the end of the term for which application was made and the diploma was ordered, the student must again make application for degree no later than the deadline for the next term in which the student expects to graduate. The student must also bear the expense of the second diploma request.

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); and
2. Nine (9) semester hours in the fields of humanities and history, in addition to the liberal studies and the foreign language requirement. Courses may be selected from the following schools, colleges and departments: School of Visual Arts and Dance; School of Music; School of Theatre; College of Communication (not including work in communication disorders), and the departments of Classical Languages, Literature, and Civilization; 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.

Students may receive a second baccalaureate degree provided that 1) the requirements for each major/minor as well as individual college or school requirements for both the first and the second degrees are satisfied; and 2) thirty (30) semester hours in residence are completed, in addition to the hours required for the first degree. The additional thirty (30) 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 (30) semester hours. There are no liberal studies or Florida CLAST requirements for the second degree.

To obtain a second major, one must meet all requirements of the college or school 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*.

Degrees of Distinction

Three degrees of distinction are granted to 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; and

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 (40) semester hours of graded work, including the final term's work;
2. The student must have the required average on all work taken at this University; and
3. The student must have the required overall average on **all** work attempted, including any transfer 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.

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.

American Sign Language as a Foreign Language

Students pursuing the Bachelor of Arts degree may substitute American Sign Language through SPA 2614C for the foreign language requirement, except where a particular foreign language(s) has been specified by a college, school, or program for a specific degree.

ACADEMIC REGULATIONS AND PROCEDURES

CREDIT AND CREDIT LIMITATIONS

Academic Honor System

A major concern of any educational institution, ranking with its concern for the advancement and dissemination of knowledge, is the maintenance of high standards of integrity and responsibility in the academic community. The Florida State University recognizes the responsibility of both faculty and students in developing and maintaining these standards.

The legal foundation for the coordinated efforts of faculty and students to uphold academic integrity and combat academic dishonesty is provided in the Academic Honor System (Florida Statute 1006.60), which can be found in the *Florida State University Student Handbook* and follows herein. The specific authority is provided for in Section 1006.60, Florida Statutes; and Florida Board of Governors Rule 6C-6.0105 "Student Discipline."

Academic Honor Code

The academic honor system of The Florida State University is based on the premise that each student has the responsibility:

1. To uphold the highest standards of academic integrity in the student's own work;
2. To refuse to tolerate violations of academic integrity in the University community; and
3. To foster a high sense of integrity and social responsibility on the part of the University community.

Violations of the Academic Honor Code

1. During examinations, violations of the Academic Honor Code shall include referring to information not specifically condoned by the instructor. It shall further include receiving information from a fellow student or another unauthorized source.
2. Regarding academic assignments, violations of the Academic Honor Code shall include representing another's work or any part thereof, be it published or unpublished, as one's own. It shall also include presenting or submitting any academic work in a manner that impairs the instructor's ability to assess the student's academic performance. For example, plagiarism includes failure to use quotation marks or other conventional markings around material quoted from any source.
3. Violations of the Academic Honor Code shall include obtaining, distributing, or referring to a copy of an examination which the instructor/department has not authorized to be made available for such a purpose.

4. Violations of the Academic Honor Code shall include any act which impedes the ability of other students to have fair access to materials assigned or suggested by the instructor. For example, removal or destruction of library or other source materials violates the Academic Honor Code.
5. Academic dishonesty shall include tampering with another student's work or impairing in any way the instructor's ability to assess the academic performance of another student.
6. Violations of the Academic Honor Code shall include alteration of grades or any other records related to the academic performance of students. This shall also include submitting any false records in order to gain admission to the University.
7. Violations of the Academic Honor Code shall include assisting, attempting to assist, or conspiring to assist another student in committing the offenses as outlined above.
8. Violations of the Academic Honor Code shall include attempting to commit any offense as outlined above.

Student Responsibility

1. Each student shall be responsible for abiding by the Academic Honor Code at all times. If required by the instructor, at the conclusion of each examination or submission of an assignment, each student shall sign a pledge that the student has neither given nor received aid from any unauthorized source during the examination or in preparing the assignment.
2. Any student who violates the Academic Honor Code is expected to report the violation to the instructor and/or the University judicial officer.
3. If a student observes cheating during an examination, the student should consult with the instructor of the course as soon as reasonable so that the cheating may be stopped. If a student otherwise observes or learns of another student's violation of the Academic Honor Code, the student shall either: (a) Ask the student to report the violation to the instructor of the course and/or the University judicial officer; or (b) Report the violation to the instructor of the course and the University judicial officer. In the event that a student asks another student to report himself/herself and such student does not do so, then the student shall report, as soon as practicable, the violation to the instructor of the course and/or the University judicial officer. The student should provide the name of such student or students involved, if known, and furnish such evidence as is available to support the charge.

Faculty Responsibility

1. Any instructor may require the students to sign a pledge at the conclusion of each examination stating that they have neither given nor received aid from any unauthorized source during the examination.
2. An instructor may further define in writing the instructor's specification of the acts which shall constitute a violation of the Academic Honor Code as set forth in Section 6b. The definition shall be explained to each class and shall be effective thereafter for that class.
3. When an instructor believes that a student has violated the Academic Honor Code in one of the instructor's classes, the instructor should discuss the matter with the student. The instructor and student may resolve the problem in a manner acceptable to both. The instructor may consult with or invite the participation of the department chair or dean in the effort to reach an acceptable agreement with the student. The student may discuss the appropriateness of any academic response with the instructor's department chair or dean. Any agreement involving an academic penalty shall be put in writing, signed by both parties concerned, and reported by the instructor to the chair or dean and, for information only, to the University judicial officer. The student shall not be further penalized based on this report alone.
4. If a satisfactory resolution is not reached at the departmental level, the instructor shall refer the matter to an Academic Honor System Hearing Panel. These panels shall consist of five members: one faculty member from the department (school) concerned and appointed by the chair (dean); one faculty member not from the department concerned but appointed by the Dean of the Faculties; and two students appointed through procedures established by the Student Senate. The panel shall be chaired by the Dean of the Faculties or designee, who shall vote only in case of a tie. Procedures of this hearing panel shall be in compliance with Section 1006.60, Florida Statutes. The University judicial officer may sit as an ex-officio nonvoting member of the hearing panel. The decision of this panel shall be final with respect to the student's guilt or innocence and the appropriate academic penalty, if any. The student shall have the right to continue in the course during the hearing procedures. Should no determination be made before the end of the term, the instructor shall record an appropriate grade to reflect the situation until a final decision is made.
5. The chair of the Academic Honor System Hearing Panel shall be responsible for reporting the decision to the student, the instructor, and the University judicial officer; the latter shall determine whether further action should be taken under the Academic Honor Code.

Academic Penalties

Academic penalties shall include but not be limited to one or a combination of the following: 1) a lower or failing grade in the course, 2) a lower or failing grade or score on the assignment or examination, or 3) additional work to provide evidence of the student's academic performance and/or evidence that the student knows and understands the course material.

University Judicial Officer Responsibilities

1. The University judicial officer shall explore the circumstances and determine whether, in the light of the severity and frequency of the student's violations of the Academic Honor Code, any disciplinary penalty should be imposed. The student may elect a hearing before the Student Supreme Court.

2. The University judicial officer shall determine, with advice from the Student Supreme Court, appropriate disciplinary penalties for students found guilty of violations of the Academic Honor Code.

3. In all cases referred to the Student Supreme Court, the University judicial officer shall submit the report from the chair of the Academic Honor System Hearing Panel and a record of the student's history regarding academic integrity. The University judicial officer shall report the disposition of each case to the student, to the Dean of the Faculties, and to the instructor involved.

Student Supreme Court Responsibilities

1. The Student Supreme Court shall be responsible for hearing all cases brought before it by the University judicial officer. These proceedings shall be conducted in accordance with the guidelines in the Student Conduct Code and other applicable University guidelines.

2. The Student Supreme Court shall, in the light of information concerning this violation and the student's entire history regarding academic integrity, hold hearings to determine a recommended disciplinary penalty in accordance with the procedures of the court.

Penalties

The following are the possible disciplinary penalties for violation of the Academic Honor Code, and they may be imposed singularly or in any combination.

1. **Dismissal**—an indefinite separation from the University. In order to be readmitted, a student dismissed for disciplinary reasons pursuant to the Academic Honor Code must file a petition for judicial clearance with the University judicial officer who will present the petition to the Honor System Committee for review and decision about whether or not the student shall receive a judicial clearance. All students who receive a judicial clearance will be permitted to return to the University on a probationary basis if they have also met applicable readmission criteria.

2. **Suspension**—a separation from the University for a specified period of time, not to exceed two years. During the period of suspension, a student is excluded from classes and all other University privileges or activities. At the conclusion of the period of suspension, the student will be permitted to return to the University on a probationary basis if the student has also met applicable readmission criteria.

3. **Probation**—a conditional retention of student status until the student graduates from the University or is separated from the University for a period of not less than four years. During the period of the probation, a student's University privileges may be restricted at the discretion of the University judicial officer.

4. **Reprimand**—a written statement from the University judicial officer expressing disapproval of conduct.

5. Nothing in this code shall preclude the imposition of other reasonable sanctions or a combination of sanctions within the authority and discretion of the appropriate tribunal.

6. Disciplinary records shall be maintained under the auspices of the Vice President for Student Affairs.

Honor System Committee

An Honor System Committee shall be appointed by the University President. The committee shall consist of three faculty selected from a list of six provided by the Faculty Senate Steering Committee and three students selected from a list of six provided by the Student Senate. Student members shall be appointed to serve terms of one year and faculty shall be appointed to serve terms of three years. The committee shall keep students and faculty informed concerning the provisions of the Academic Honor System, monitor the operation and effectiveness of the Academic Honor System, and make recommendations to the Faculty Senate and the Student Senate that it may deem appropriate.

Amendment Procedures

Amendments to the provisions of the Academic Honor System may be initiated by the above named committee, by the Faculty Senate, the Student Senate, or by the Vice President for Academic Affairs. Amendments to the Academic Honor System must be approved by the Faculty Senate and the Student Senate. After approval, amendments shall be forwarded to the University for implementation.

General Academic Appeals Process

Grievance Procedure

Students who feel 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 depart-

ment chair, and finally to the academic dean appropriate to the course involved, stopping at the level at which the complaint is resolved. After following this procedure if graduate students have not resolved their complaint, they must see the Dean of Graduate Studies prior to meeting with the Dean of the Faculties. If no resolution is reached, the student brings the complaint to the attention of the Dean of the Faculties for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. This 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 feel 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, and then to the Panama City Dean, stopping at the level at which the complaint is resolved. If no resolution is reached in Panama City, 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. After following this procedure if graduate students have not resolved their complaint, they must see the Dean of Graduate Studies prior to meeting with the Dean of the Faculties. If no resolution is reached, the student brings the complaint to the attention of the Dean of the Faculties for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. This committee has the authority to direct, through the Vice President for Academic Affairs, that corrective action be taken when justified.

University 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.

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 45 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, which 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, or support staff position (including law enforcement unit 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 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 The 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, Florida 32306-2480.*

Release of Student Information

The disclosure or publication of student information is governed by the policies of The 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 or support staff position (including law enforcement unit 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 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 which are exempted by law including records of law enforcement agencies of the University; employment records of the student within the University; 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. Telephone number (if listed);
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: *The Registrar, Office of the University Registrar, A3900 University Center, The Florida State University, Tallahassee, FL 32306-2480.*

Class Attendance

All students are expected to abide by the class attendance policy set forth by the instructor in each class in accordance with Section 8.6 of the *Faculty Handbook*. Any arrangement to make up work because of class absence is the responsibility of the student. The instructor, who will explain the grading policy at the beginning of the term, determines the effect of absences upon grades. Students reported absent for a period of two weeks or more may be readmitted only by permission of their academic dean. Upon readmission the dean may require a reduction of the academic load. A student reported for excessive absence in any course may be required by the academic dean to drop the course with the grade of "F".

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 fourth week of classes without the permission of their academic dean.

The Director of Student Health Services does not issue excuses to students. A card indicating date and time of admission, discharge or treatment will be given to the student for presentation to the faculty member

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 athletes' sport for the remainder of the season. This policy includes required attendance and completion of all final examinations or evaluations for each class in which the athlete is registered. Student-athletes must remain in good academic standing in order to maintain eligibility during post-season games, the upcoming semester and future competitive seasons. 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 and nursing majors. Membership within these units implies that the student agrees to fulfill the obligations of the organization.

Religious Holy Days

Per Section 1006.53, Florida Statutes, the Florida State University policy on observance of religious holy days provides that students shall, upon notifying their instructor, be excused from class to observe a religious 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 penal-

ize students who are absent from academic or social activities because of religious holy day observance. Students who feel 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 Dean of the Faculties for either resolution or referral to the Student Academic Relations Committee of the Faculty Senate. This committee has the authority to direct, through the Vice President for Academic Affairs, that corrective action be taken when justified. Consult the 'General Academic Appeals Process' section of this chapter for a complete description.

Classification of Students

Students are classified on the basis of semester hours earned as follows:

Freshman, zero (0) through twenty-nine (29) semester hours, classification 1;

Sophomore, thirty (30) semester hours, classification 2;

Junior, sixty (60) semester hours, classification 3;

Senior, ninety (90) semester hours, classification 4;

Graduate, any student admitted to a graduate program, classification 5;

Special Non-Degree Seeking without Baccalaureate Degree, classification 6;

Special Non-Degree Seeking with Baccalaureate Degree, classification 7;

Provisional, classification 8 (graduate students only);

Transient, classification 9; and

High School Students, classification 0.

Special (Non-Degree Seeking) Student Regulations

Academic rules governing regular students (e.g., fees, drop/add, withdrawal, grading policies) also apply to special students with the following exceptions:

1. Special students may enroll for fewer than twelve (12) semester hours (underload) without permission;
2. In place of the retention schedule system for regular students, special students in classification six (6) must meet the following requirements: after attempting fifteen (15) semester hours, undergraduate special students must have achieved and must maintain a 2.0 ("C") average in all courses attempted;

3. In place of the retention schedule system for regular students, special students in classification seven (7) must meet the following requirements: after attempting twelve (12) semester hours, graduate special students must have achieved and 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 privilege;

5. Special students may register for any course or courses on an S/U basis. Special 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;

6. Work taken as a special student carries no degree credit. Students seeking reclassification from special student to regular student status should consult the "Admissions" chapter of this *General Bulletin*. Up to fifteen (15) semester credit hours earned as a special student may be applied toward an undergraduate degree with approval of the appropriate dean at the time of reclassification, or later.

Consult the "Academic Regulations and Procedures" chapter of the *Graduate Bulletin* for policies relating to special student status at the graduate level.

Course Loads

The Florida State University regards fourteen (14) to fifteen (15) semester hours as a normal full-time load, and a student will not be considered full-time with fewer than twelve (12) semester hours. Students should take into account the requirement to take nine (9) semester hours of credit in the summer. A student who maintains a twelve (12) semester hour (low/normal) load will not graduate in four academic years unless a total of twenty-four (24) semester hours are taken during summer sessions.

A course load of more than eighteen (18) semester hours or less than twelve (12) 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 (21) semester hours. A student on academic probation must enroll for not fewer than twelve (12) and not more than fifteen (15) semester hours. Special students are not required to obtain an underload permit.

See the *Graduate Bulletin* for policies regarding course loads for graduate students.

Course Examinations

Final examinations in undergraduate courses are discretionary within any given department, but all students, including graduating seniors and graduate students, enrolled in an undergraduate course having a final examination are required to take the examination. The scheduling of a final examination, or a test in lieu of a final examination, at any time other than the regularly scheduled final examination period, is a violation of University policy. A final examination may not

be given during the examination period at a time other than that which appears online at <http://registrar.fsu.edu>.

Courses meeting every day at the same hour and classes meeting for more than one time period will hold 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 second period on Thursday will hold its examination at the exam time scheduled for the Tuesday first period.

Under special circumstances, exceptions to final examination policies for individual students will be given consideration by the appropriate academic dean.

Exceptions to the Examination Policy for an Individual Undergraduate Student. Approval by the appropriate academic dean is required for any change in examination time for an individual undergraduate student. The student must first receive written permission from the instructor if the instructor is willing to give a make-up examination at a specified time within the 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.

Make-up examinations are permitted for an undergraduate student when justified by illness, conflicting examinations, four or more examinations in a 24-hour period, or for certain emergencies. Arrangements should be made prior to the scheduled exam.

In case of conflicting examinations, group examinations take precedence over examinations scheduled by class meeting time. In the case of conflicts that cannot otherwise be resolved, the course meeting earlier by day and time takes precedence over a course meeting later.

Exceptions to the Examination Policy for an Undergraduate Class. No instructor of an undergraduate course may give a final examination during the separate examination period at a time other than that which appears online at <http://registrar.fsu.edu>, unless the instructor has obtained prior approval from the undergraduate policy committee. Such approval must be requested, in writing, at least three weeks prior to the scheduled final examination. 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.

Grading System

Definition	Grade	Quality Points Per Credit Hour
Excellent	A	4.00
	A-	3.75
Good	B+	3.25
	B	3.00
Average	B-	2.75
	C+	2.25
	C	2.00
	C-	1.75
Poor	D+	1.25
	D	1.00
	D-	0.75
	F	0.00
Failure	F	0.00
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

Quality points are assigned for each semester hour as listed above. In computation of the required grade point average (GPA) 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.

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 liberal studies courses is interpreted as "2.0" average or better."

Dean's List

Undergraduate students who are registered for at least twelve (12) semester hours of letter-grade (A-F) courses are eligible for the dean's list. The required grade point average is 3.50, in all colleges and schools, for any given term.

President's List

Undergraduate students who are registered for at least twelve (12) 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 and schools, for any given term.

Satisfactory/Unsatisfactory Grading

A. Undergraduate Courses Approved on a Letter-Grade Basis

To encourage liberal 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; the student must have at least second-semester freshman standing and at least a 2.5 grade point average. S/U permit forms must be obtained from and eligibility certified by the Office of the University Registrar by the end of the fourth 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 (18) 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 four 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 fourth week of the term. Courses initially elected on the S/U basis may be changed back to a letter-grade basis until the end of the fourth week of the term.

Approval forms are available in the Office of the University Registrar.

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 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*.

Grading Practices

At the end of each term, a report of each student's grades is made available via The Florida State University student access system and the FSyou! website. Grades may be obtained by dialing (850) 644-8888 and selecting option 2 followed by the student's social security number and four-digit registration PIN, or by accessing the website at <http://www.ais.fsu.edu/ais/applications/student>.

Grades earned at another institution cannot be used to improve a grade point average or eliminate a quality point deficiency at The Florida State University.

A student who is passing a course but has not completed all of the required work in the course at the end of the term may, with the permission of the instructor, be assigned a grade of "I." This may include excused absences from final examinations. Grades of "I" are not assigned to any courses if a student withdraws from the University. Unless the instructor notifies the Office of the University Registrar of an extension in time, an "I" or an "NG" not removed by the end of the next term in which the student is enrolled will be recorded as "IE" or "GE;" both "IE" and "GE" are computed as an "F" in the student's overall GPA. An "I" will be changed to a final grade at the time the student completes the required work. Students may not re-register for courses in which an incomplete grade ("I") or no grade ("NG") is pending. If they do so, the original "I" or "NG" will automatically be changed to "F." This "F" grade is not repeatable under the forgiveness policy and is so indicated on the student's permanent record. A grade of "I" or "NG" in a course that is approved for "S" or "U" grades only which is not removed by the end of the next term in which the student is enrolled will automatically become "U," unless the instructor notifies the Office of the University Registrar that there is to be an extension of time.

Once a final grade in a course has been reported by the instructor to the Office of the University Registrar, it cannot be changed except in cases of error in recording. A change in a grade may be made only by permission of the department head and the dean of the college or school.

Grade Appeals System

The purpose of the grade appeals system is to afford an opportunity for an undergraduate or graduate student to appeal a grade the student feels was inequitably awarded, in that it involved a gross violation of the instructor's own specified grading standards, which the instructor has an obligation to announce at the beginning of the course. The student may appeal the grade in the following manner:

Step 1.

The student must approach the instructor in question to discuss the grade and attempt to resolve any differences. A student not in residence for the succeeding term or a resident student who is unable to resolve the differences with the instructor must file an appeal with the instructor's program or department chair, whichever is appropriate, within 60 days following the assignment of the disputed grade.

Step 2.

If still dissatisfied, the student may, after filing a written statement with the program or department chair explaining the basis for the appeal, appear before a board composed of three students nominated by the program or departmental student advisory committee or its counterpart. A negative decision by the board will end the appeal. A favorable decision will be referred to the departmental board described in step 3 (below). The student advisory board acts as a screening body and determines solely whether the appeal is consonant with the criteria indicated above. The student advisory board must be appointed and its decision made within three weeks of the time that the written statement has been filed with the program or department chair.

Step 3.

A department board comprising three faculty members and two students appointed by the chair must be selected for each case. The departmental board must be appointed and its decision made within three weeks of the time the student advisory board has reached a favorable decision on the grade appeal. A unanimous decision shall be final and binding on all parties concerned. A majority opinion may be appealed by the student or the faculty member to a college-wide board appointed by the dean of the college from nominees supplied by the faculty and student advisory committees respectively. The appeal from the decision of the departmental board must be made by the dissatisfied party within three weeks of the time that decision has been made. The college-wide board must be appointed and its decision made within three weeks of the time that the written appeal has been filed with the dean of the college. The majority decision of this college-wide appeal body shall be final and binding on all parties concerned.

Each committee and board is charged with hearing the instructor in question, if the instructor wishes.

Forgiveness Policy

The grade point average (GPA) is computed by dividing the number of graded hours attempted at The Florida State University into the total number of quality points earned at this University.

Under the forgiveness policy of the Faculty Senate, an undergraduate student (degree seeking) may improve The Florida State University GPA by repeating a course in which a grade of "D" or "F" was received and requesting that the repeat

grade be the only one counted in the calculation. Only two such requests are available to any student during the student's undergraduate career. The repeat must be in the same course, taken at The Florida State University.

A student is required to submit to the Office of the University Registrar a forgiveness repeat request using the FSyou! website at <http://www.studentsfirst.fsu.edu> or the signed form for grade forgiveness by the midterm date of that term in which the course is being repeated. At any time prior to that midterm date, the student may also submit a written request to cancel the signed form for grade forgiveness for that course, but no change will be allowed after the midterm date. Specific deadlines are published in the University's academic calendar for each term.

Note: this policy affects internal GPA calculations only. The policy does not alter the permanent record (all attempts for a given course and all grades remain on the transcript) and does not affect the GPA calculations of outside agencies or other institutions who will generally use both grades in their calculation of GPA.

Students may repeat courses in which they received a grade of "D" or "F" without using the forgiveness policy. 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 course taken on a letter-grade basis must be repeated on the same basis for the forgiveness policy to apply. A student will not be allowed additional credit and/or quality points 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. If a course listing is followed by an "r" it may be repeated, regardless of the grade received, for the number of times or hours stated.

Transient or special student course work previously taken at The Florida State University by a degree-seeking student may be repeated under The Florida State University Forgiveness Policy for degree credit purposes. Previous special student work, however, must have been approved for degree credit by the student's academic dean for forgiveness to apply. This change is effective for newly admitted students for Fall 1996 and is not retroactive. The two repeat limitation still applies.

Graduate students should refer to the 'Grading Practices' in the "Academic Regulations and Procedures" chapter of the *Graduate Bulletin*.

Academic Retention

All students must demonstrate satisfactory academic progress for retention and continued enrollment at The 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.

Students should obtain from their academic dean or from the Office of the University Registrar a Retention Table indicating the necessary grade point average (GPA) on all course work taken at The Florida State University required for retention at the University. The Retention Table takes into consideration the number of semester hours the student has attempted and indicates the quality point deficiency which will place the student on academic warning, academic probation, or academic dismissal.

A minimum Florida State University GPA of 2.0 ("C") or better and an overall 2.0 GPA on all college-level work attempted is required for graduation. "College-level work" is interpreted to mean course work attempted for credit at the college level, not to include vocational, technical, or other courses not applicable toward a degree. Students should maintain at least this minimum at all times to be in good standing. To be retained in the University, a student must achieve an overall Florida State University average at the end of each term which, in the judgment of the University, is sufficiently near 2.0 to permit reaching the 2.0 average by the beginning of the junior year.

Warning

As an aid to students in the Division of Undergraduate Studies and lower-division music, dance, and bachelor of fine arts (BFA) in theatre students (freshmen and sophomores), an "academic warning" will be included with grade reports at the end of the term if the cumulative average has fallen below 2.0 but not low enough to place the student on academic probation. A student will be dismissed if the student's average falls within the dismissal range after a term of academic warning.

Probation

When any student's grade point average (GPA) falls within the probationary range, the student will be placed on academic probation for one term. A student on probation must enroll for not less than twelve (12) and not more than fifteen (15) semester hours during the probationary term. If the student fails to remove the probationary status by the end of the term, the student will be dismissed.

Students whose averages were 2.0 or better, but whose averages within one term fall within the dismissal range, will be placed on probation for one term instead of receiving immediate academic dismissal.

Students on academic probation who elect to enroll in a Florida public postsecondary institution (or in an accredited institution within or outside the state) and who receive an associate in arts degree with an overall 2.0 average will have the probationary status and their previous Florida State University average removed upon application for readmission, and will be guaranteed a maximum of sixty (60) semester hours.

Dismissal

The dismissed student must consult the student's academic dean about criteria governing possible readmission to the University. Students dismissed because of low grade point averages (GPA) may be readmitted by: 1) achieving the required minimum average through correspondence courses offered by the State of Florida, Division of Colleges and Universities; 2) attending and graduating with an associate in arts degree from a Florida public postsecondary institution (or an accredited institution within or outside the state) with an overall college average of 2.0 or higher; or 3) extraordinary approval of the academic dean. In the latter case, if the student fails to achieve the required GPA for unconditional retention during the first term of reenrollment, the student will again be dismissed. Students are not eligible for readmission after two dismissals.

Under option 2, students are guaranteed a maximum of sixty (60) semester hours and their Florida State University grade point average will start over upon readmission.

Grades earned at another institution cannot be used to improve The Florida State University GPA. A student cannot raise the GPA by taking courses at another institution after receiving the associate in arts (AA) degree.

Credit hours earned during any period of dismissal cannot be applied to the minimum one hundred twenty (120) semester hours required for graduation. The only exception made to this provision is for credits earned under option 2 above.

All students who enter The Florida State University are assured retention for their second term. Students may, however, be placed on academic probation at the end of the first enrolled term.

Graduate students should refer to 'Suspension and Dismissal' in the "Academic Regulations and Procedures" chapter of the *Graduate Bulletin*.

Readmission

Please refer to the "Admissions" chapter in this *General Bulletin* for readmission policies for returning students.

Withdrawal From the University

All students, including regular (degree seeking), special (non-degree seeking) and all State of Florida, Division of Colleges and Universities transient students, who wish to leave the University during a term must formally withdraw. 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. Withdrawals are initiated in the withdrawal services section of the Office of the Dean of Students in the University Center.

The statement "Withdrew from the University" will appear on the transcripts of students who properly withdraw within the first four weeks of class. After that date, depending on the quality of

work at the time of withdrawal, grades of "W" or "F" will be assigned by instructors and placed on the student's transcript with the withdrawal statement. Under unusual circumstances and upon recommendation of the appropriate academic dean, a student withdrawing from the University may receive "WD" grades in all courses taken that term.

Students who cancel their enrollment during the first five 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 five days of classes but prior to the end of the fourth week of classes are eligible for a twenty-five percent (25%) 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 of Education and The Florida State University. Students who receive Title IV funds and who decide to withdraw from the University may be required to repay some or all of the funds received.

Should a student wish to register at the University at a later date, a formal application for readmission must be made at least sixty (60) days prior to the beginning of the term in which the student wishes to re-enroll. (See the 'Readmission' section in the "Admissions" chapter of this *General Bulletin*.)

For further information on refunds, see the 'Refunds of Fees' section in the "Financial Information" chapter of this *General Bulletin*.

Readmission After Multiple Withdrawals

When a student has withdrawn three (3) or more times from the University, subsequent readmission will first be considered by a committee whose charge is to assess the student's capability of making satisfactory progress to 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.

Medical Withdrawal

When a student has been granted more than one medical withdrawal, the Medical Withdrawal Committee will send a letter to the student noting that further withdrawal requests may not be considered. The student is requested to evaluate with their medical provider the number of hours they are capable of handling prior to registration.

FACTS Information

A new service is now available to all current and prospective students of higher education in the state of Florida, the FACTS (Florida Academic Counseling and Tracking for Students) website. By logging on at <http://www.facts.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, as well as all state community colleges;
- apply to more than one university or college by entering in your date just one time;
- get questions answered about financial aid;
- plan your course of study, compare majors and degree requirements;
- get a copy of your unofficial transcript;
- investigate career options through your institution's career center; or,
- find out general information about every participating college or university in the program.

Second Majors and Academic Regulations

Students pursuing a second 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 The 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, pre-requisites, etc., for that second major.

Correspondence Study

All correspondence instruction for the State of Florida, Division of Colleges and Universities, is administered through the University of Florida's Division of Continuing Education, Department of Independent Study by Correspondence.

College credit, high school credit, and continuing professional education courses are available anytime, anywhere through regular mail and fax (some by e-mail). Independent Study offers more than 150 courses to students who would like either a flexible schedule or an opportunity to take extra classes. 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.

Correspondence courses may be taken while a student is ineligible to return to the University for academic reasons, but such courses may not be counted toward an undergraduate degree.

College courses include Advertising, Chemistry, Economics, Education, English, History, Journalism, Management, Marketing, Political Science, Psychology, Religion, Statistics, and more. **Continuing Professional Education** courses include a Business Leadership & Management Certificate, Dietary Management, Environmental Management Systems, Insurance, Legal Assistant Certificate Program, plus others. **High school** courses cover Accounting, Art, Foreign Language, Health, Humanities, Mathematics, Peer Counseling, Science, and Social Studies.

Any teacher in the State of Florida can now use credit correspondence courses, 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.

The current catalog details enrollment procedures, fees, and course information. Call or write now for your free copy: *University of Florida, Department of Independent Study, Division of Continuing Education, Suite D, 2209 NW 13th Street, Gainesville, FL 32609; (352) 392-1711 Ext. 200; or e-mail: Learn@nervm.nerdc.ufl.edu.* Additional information can be found at their home page: <http://www.doce.ufl.edu/indstudy>. Catalogs can also be picked up at The Florida State University's Center for Professional Development or from the student's academic dean.

Experimental Undergraduate Programs

The undergraduate policy committee is empowered to authorize substitution of experimental courses or programs for any University-wide academic requirements, provided that:

1. No substitution continues for more than 18 months without full senate approval;
2. No student be enrolled in such an experimental program without the student's prior knowledge and consent; and
3. No requirement that a student has met by means of such an experimental program be affected, for that student, by subsequent decisions about the permanent status of the program in question, and that the undergraduate policy committee and the Office of the University Registrar be empowered to institute appropriate means for designating and recording the use of such programs on individual students records.

Transfer Credit

Transfer credit is normally allowed for courses completed at or through other regionally accredited institutions of higher learning. No credit, however, is allowed for technical, vocational, or subcollege courses, or for courses completed with grades below "D-." Associate in arts (AA) degree recipients from Florida public institutions are guaranteed acceptance of at least sixty (60) semester hours of college credit toward the baccalaureate degree.

Credit earned from Florida public institutions will be evaluated on the basis of the Common Course Numbering System. Those courses judged equivalent will be accepted for transfer credit. Courses are judged equivalent when the prefix and the last three numerical digits of the course number are the same. Thus, THE 1234 taken at one institution is equivalent to THE 3234 at another institution. Courses not judged equivalent may be accepted for transfer credit at the discretion of the baccalaureate academic dean.

All grades earned at other regionally accredited institutions are entered on a student's record at the time of transfer exactly as earned. Such grades are averaged separately from grades earned at The Florida State University.

Students entering The Florida State University without credit in college algebra will be required to take, or exempt, MAC 1105, MGF 1106, or MGF 1107.

Courses with the prefix "MGF" at or above the level of _106 will be accepted for transfer credit (hours allowed toward graduation). For students transferring from junior or senior institutions that stipulate the MGF course meets "Gordon Rule" requirements, the course will be accepted in partial fulfillment of Section 1007.25, Florida Statutes. (See the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.) Students not needing another mathematics course for their major may use this as their second course; students needing more mathematics will follow The Florida State University guidelines regarding their next course.

College work completed with satisfactory grades by a student at a regionally accredited institution of higher learning, prior to graduation from high school, will apply in the normal manner toward the baccalaureate degree at The Florida State University. The Office of Admissions must be provided an official transcript of such work.

An official course-by-course evaluation is required for all academic records from non-U.S. institutions. Students should refer to the 'International Student Admission' section in the "Admissions" chapter of this *General Bulletin*.

Graduate students should refer to the 'Transfer Credit' section in the "Graduate Degree Requirements" chapter of the *Graduate Bulletin*.

Credit for Nontraditional Courses, Including Short Courses

Nontraditional 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 (15) total contact hours; a two-hour course must have thirty (30) total contact hours; a three-hour course must have forty-five (45) 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.

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.

Programs for Acceleration

The 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. Each baccalaureate degree program is so designed that students may complete a minimum of twenty-five percent (25%) of degree requirements through the acceleration mechanisms discussed below.

The 2001 Florida Legislature created the Florida Bright Futures Scholarship Testing Program to provide for greater use of acceleration options for Florida Academic and Medallion Scholars award recipients. For more information regarding this program and a listing of eligible dual enrollment courses and examinations, please refer to <http://www.firm.edu/doe/brfuture>.

Dual Enrollment

Students who are enrolled in college course work prior to graduation from high school may be awarded college credit at The Florida State University. Refer to the 'Transfer Credit' section of this chapter for specific information concerning what may transfer.

Credit by Examination

The University recognizes the following examination programs for which students may receive academic credit or exemption in lieu of course work. These programs permit the qualified student to earn by examination up to thirty (30) semester hours of credit toward liberal studies requirements and up to sixty (60) 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 course-work requirement of forty (40) semester hours in courses numbered 3000 and above, and the Section 1007.25, Florida Statutes, writing requirement (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 the Admissions 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 Liberal Studies Program at The 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 The 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 (3) 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 receiving the IB diploma will receive up to thirty (30) semester hours of credit for scores of four (4) or higher on both higher-level and standard-level examinations. Students who do not receive the IB diploma will receive credit for scores of five (5) or higher on higher-level examinations only. Refer to the IB Table at the end of this chapter for college course equivalents and credits earned.

College-Level Examination Program (CLEP)

Students may earn credit in lieu of course work for CLEP. No credit will be awarded for a subject matter examination if the student has already earned any course credit in the subject area; e.g., a student may not earn credit in the American

Government Examination if a course has been taken in college (junior or senior institution) in that area. Refer to the CLEP Table at the end of this chapter for college course equivalents and credits earned.

English Credit Through SAT/ACT

Students who score 650 or higher on the verbal portion of the Scholastic Assessment Test (SAT-I) or 29 or higher on the English portion of the American College Testing Program test (ACT) will be granted three (3) semester hours of credit equivalent to ENC 1101.

Mathematics Credit Through SAT/ACT

Students who score 680 or higher on the quantitative portion of the Scholastic Assessment Test (SAT-I) or 30 or higher on the mathematics portion of the American College Testing Program test (ACT) will be granted three (3) semester hours of credit equivalent to MAC 1105.

Departmental Examinations

Departments and programs of the University may offer examinations for academic credit in lieu of course work to undergraduate students upon request. Interested students should consult with their schools or departments concerning the availability of examinations in lieu of specific courses.

General Credit Limitations

Courses taken by correspondence through the State of Florida, Division of Colleges and Universities, 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 (30) 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. A student may elect instead to meet the degree requirements specified in any subsequent *General Bulletin* covering a period of the student's enrollment.

Up to six (6) semester hours of cooperative education credits will be accepted provided they are certified as academic credits by the sending institution.

When credits are more than 10 years old they are subject to reevaluation by the appropriate dean before they can be applied toward graduation.

For credit limitations on graduate degrees, refer to the *Graduate Bulletin*.

AICE Scores and University Course Equivalents

(Numbers in parentheses indicate the number of credits awarded)

EXAM NAME	LEVEL	SCORE OF E OR D	SCORE OF C, B, OR A
Art and Design	AS-Level A-Level	ART 1300C (3) ART 1300C (3)	Same Same
Biology	AS-Level A-Level	None None	BSC 1005C (4) BSC 2010C (4)
Chemistry	AS-Level A-Level	None None	CHM 1020C (4) CHM 1045C (4)
Computing	AS-Level A-Level	CGS 1073 (3) CGS 1073 (3), CGS 1074 (3)	Same Same
Economics	AS-Level A-Level	ECO 2000 (3) ECO 2013 (3), ECO 2023 (3)	Same Same
English	AS-Level A-Level	ENC 1101 (3) ENC 1101 (3)	Same ENC 1101 (3), ENC 1102 (3)
Environmental Science	AS-Level	EVR 1001C (4)	Same
Geography	AS-Level A-Level	GEA 1000 (3) GEO 3200 (3), GEO 1400 (3)	Same Same
History American European International	AS-Level	AMH 1000 (3) EUH 1009 (3) WOH 1030 (3)	Same Same Same
History American European International All other areas in history subject to institutional review.	A-Level	AMH 1000 (3) EUH 1009 (3) WOH 1030 (3)	Same Same Same
Foreign Language Spanish French German	AS-Level	SPN 1120 (4), SPN 1121 (4) FRE 1120 (4), FRE 1121 (4) GER 1120 (4), GER 1121 (4)	SPN 1120 (4), SPN 1121 (4), SPN 2200 (4) FRE 1120 (4), FRE 1121 (4), FRE 2200 (4) GER 1120 (4), GER 1121 (4), GER 2230 (4)
Foreign Language Spanish French German All other languages subject to institutional review.	A-Level	SPN 1120 (4), SPN 1121 (4) FRE 1120 (4), FRE 1121 (4) GER 1120 (4), GER 1121 (4)	SPN 1120 (4), SPN 1121 (4), SPN 2200 (4) FRE 1120 (4), FRE 1121 (4), FRE 2200 (4) GER 1120 (4), GER 1121 (4), GER 2230 (4)
Foreign Language Literature Spanish French	AS-Level	SPW 3030 (3) FRW 3100 (3)	Same Same
Foreign Language Literature Spanish French All other languages subject to institutional review.	A-Level	SPW 3030 (3) FRW 3100 (3)	Same Same
Mathematics	AS-Level A-Level	None None	MAC 1147 (5) MAC 2311 (4)
Physics	AS-Level A-Level	None PHY 2053C (4)	PHY 1020C (4) PHY 2053C (4), PHY 2054C (4)
Psychology	AS-Level A-Level	None PSY 2012 (3)	None Same
Sociology	AS-Level A-Level	None SYG 1000 (3)	None Same

AP Scores and University Course Equivalents

(Numbers in parentheses indicate the number of credits awarded)

EXAM NAME	Score of 3	Score of 4	Score of 5
ART HISTORY	ARH 2000 (3)	ARH 2050 (3), ARH 2051 (3)	Same as 4
BIOLOGY	BSC 1005, BSC 1005L (1)	Same as 3	BSC 2010 (3), BSC 2010L (1), BSC 2011 (3), BSC 2011L (2)
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
CHEMISTRY	CHM 1020C (3), CHM 1020L (1)	CHM 1045 (3), CHM 1045L (1)	CHM 1045 (3), CHM 1045L (1), CHM 1046 (3), CHM 1046L (2)
COMPUTER SCIENCE A	CGS 1075 (3)	Same as 3	Same as 3
COMPUTER SCIENCE AB	CGS 1076 (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), ENC 1102 (3), or ENC 1101 (3), LIT 1005 (3) ¹	Same as 4
ENVIRONMENTAL SCIENCE	ISC 1051 (3)	Same as 3	Same as 3
EUROPEAN HISTORY	EUH 1009 (3)	EUH 2000 (3), EUH 2001 (3)	Same as 4
FRENCH-LANGUAGE	FRE 2200 (4)	FRE 2200 (4), FRE 2201 (2)	Same as 4
FRENCH-LITERATURE	FRW 3100 (3)	FRW 3100 (3), FRW 3101 (3)	Same as 4
GERMAN-LANGUAGE	GER 2230 (4)	GER 2230 (4), GER 2231 (2)	Same as 4
GOVERNMENT AND POLITICS: COMPARATIVE	CPO 2002 (3)	Same as 3	Same as 3
GOVERNMENT AND POLITICS: UNITED STATES	POS 1041 (3)	Same as 3	Same as 3
HUMAN GEOGRAPHY	GEO 1400 (3)	Same as 3	Same as 3
LATIN LITERATURE (Catullus)	LNW 1700 (3)	Same as 3	Same as 3
LATIN-VERGIL	LNW 1660 (3)	Same as 3	Same as 3
MUSIC THEORY (if composite score is 3 or higher)	MUT 1001 (3)	Same as 3	Same as 3

¹ LIT 1005 will be awarded if student has already received credit for ENC 1102

MUSIC THEORY (if both aural and non-aural subscores are 3 or higher)	MUT 1111 (3), MUT 1241 (1)	Same as 3	Same as 3
PHYSICS B	PHY 2053C (4)	PHY 2053C (4), PHY 2054C (4)	Same as 4
PHYSICS C: ELECTRICITY AND MAGNETISM	PHY 2054C (4)	PHY 2049C (4)	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
SPANISH-LANGUAGE	SPN 2200 (4)	SPN 2200 (4), SPN 2201 (2)	Same as 4
SPANISH-LITERATURE	SPW 3100 (3)	SPW 3100 (3), SPW 3101 (3)	Same as 4
STATISTICS	STA 2014 (3)	Same as 3	Same as 3
STUDIO ART	ART 1300C (3)	Same as 3	Same as 3
UNITED STATES HISTORY	AMH 1000 (3)	AMH 2010 (3), AMH 2020 (3)	Same as 4
WORLD HISTORY	WOH 1022 (3)	Same as 3	Same as 3

IB Scores and University Course Equivalents

(Numbers in parentheses indicate the number of credits awarded)

Exam Name	Score of 4 (Diploma holders only)	Score of 5 (Higher-Level only for non-diploma holders; either Standard- or Higher-Level for diploma holders)	Score of 6 or 7 (Higher-Level only for non-diploma holders; either Standard- or Higher-Level for diploma holders)
BIOLOGY	BSC 1005C (3)	BSC 1005C (2), BSC 2010 (3), BSC 2010L (1)	Same as 5
CHEMISTRY	CHM 1020C (3)	CHM 1020C (2), CHM 1045 (3), CHM 1045L (1)	Same as 5
COMPUTER SCIENCE	CGS 1078 (3)	CGS 1078 (6)	Same as 5
DESIGN ENGINEERING	ETI 1410 (3)	ETI 1410 (6)	Same as 5
ECONOMICS	ECO 2000 (3)	ECO 2013 (3), ECO 2023 (3)	Same as 5
ENGLISH A1	ENC 1101 (3)	ENC 1101 (3), ENC 1102 (3)	Same as 5
ENVIRONMENTAL SYSTEMS	ISC 1050 (3)	ISC 1050 (6)	Same as 5
FRENCH B	FRE 1121 (3)	FRE 1121 (2), FRE 2200 (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 3200 (3)	Same as 5
GERMAN B	GER 1121 (3)	GER 1121 (2), GER 2230 (4)	Same as 5
GERMAN A1 OR A2	GEW 3370 (3)	GEW 3370 (3), GEW 3320 (3)	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 1000 (3)	Same as 5
HISTORY-EAST and SOUTHEAST ASIA	WOH 1030 (3)	WOH 1030 (3), ASH 1044 (3)	Same as 5
HISTORY-EUROPE	WOH 1030 (3)	WOH 1030 (3), WOH 1023 (3)	Same as 5
HISTORY-WEST and SOUTH ASIA	WOH 1030 (3)	WOH 1030 (3), ASH 1044 (3)	Same as 5
LATIN	LNW 1701 (3)	LNW 1701 (6)	Same as 5
MATHEMATICS	MAC 1147 (3)	MAC 1147 (3), MAC 2233 (3)	MAC 2233 (2), MAC 2311 (4)
MATHEMATICS-FURTHER (Advanced)	MHF 1202 (3)	MHF 1202 (3), MHF 1209 (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 1010 (3)	MUL 1010 (3), MUT 1011 (3)	Same as 5
PHILOSOPHY	PHI 2010 (3)	PHI 2010 (3), PHI 2630 (3)	Same as 5

PHYSICS	PHY 1020 (3)	PHY 1020 (3), PHY 1020L (1), PHY 1009 (2)	PHY 2053C (2), PHY 2054C (4)
PSYCHOLOGY	PSY 2012 (3)	PSY 2012 (3), PSY 4930r (3)	Same as 5
RUSSIAN	RUS 1121 (3)	RUS 1121 (2), RUS 2200 (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 B	SPN 1121 (3)	SPN 1121 (2), SPN 2200 (4)	Same as 5
SPANISH A1 OR A2	SPW 3100 (3)	SPW 3100 (3), SPW 3101 (3)	Same as 5
THEATRE ARTS	THE 2000 (3)	THE 2000 (3), THE 3931r (3)	Same as 5
VISUAL ARTS (Design)	ART 1300C (3)	ART 1300C (3), ART 3930r (3)	Same as 5
VISUAL ARTS (History)	ARH 3056 (3)	ARH 3056 (3), ARH 3057 (3)	Same as 5

CLEP Scores and University Course Equivalents

(Numbers in parentheses indicate the number of credits awarded)

EXAM	C-LEVEL PASS	B-LEVEL PASS
Accounting, Principles of	ACG 2001 (3)	Same as C
Algebra, College	MAC 1105 (3)	Same as C
Algebra/Trigonometry, College	MAC 1147 (5)	Same as C
American Government	POS 1041 (3)	Same as C
American Literature	AML 1000 (3)	AML 2010 (3), AML 2020 (3)
Biology, General	BSC 1005 (3)	Same as C
Business Law, Introduction to	BUL 2241 (3)	Same as C
Calculus with Elementary Functions	MAC 2233 (3)	Same as C
Chemistry, General	CHM 1020 (3)	Same as C
Educational Psychology, Introduction to	EDP 1002 (3)	Same as C
English Composition with Essay	ENC 1001 (3)	Same as C
English Literature	ENL 1000 (3)	ENL 2012 (3), ENL 2022 (3)
Freshman Composition	No equivalent	No equivalent
History of the US to 1877	No equivalent	AMH 2010 (3)
History of the US from 1865	No equivalent	AMH 2020 (3)
Human Growth and Development	No equivalent	DEP 2004 (3)
Information Systems and Computer Applications	CGS 1077 (3)	Same as C
Macroeconomics, Principles of	No equivalent	ECO 2013 (3)
Management, Principles of	MAN 2021 (3)	Same as C
Marketing, Principles of	MAR 2011 (3)	Same as C
Mathematics, College	MGF 1107 (3)	Same as C
Microeconomics, Principles of	No equivalent	ECO 2023 (3)
Psychology, Introductory	No equivalent	PSY 2012 (3)
Sociology, Introductory	SYG 1000 (3)	Same as C
Trigonometry	MAC 1114 (2)	Same as C
Western Civilization I, to 1648	No equivalent	EUH 2000 (3)
Western Civilization II, from 1648	No equivalent	EUH 2001 (3)
Foreign language exams:	Score of 50	Second Threshold Level (current level in brackets)
French	FRE 1120 (4)	[52] FRE 1120 (4), FRE 1121 (4)
German	GER 1120 (4)	[63] GER 1120 (4), GER 1121 (4)
Spanish	SPN 1120 (4)	[54] SPN 1120 (4), SPN 1121 (4)



UNIVERSITY HONORS PROGRAMS AND HONOR SOCIETIES

The Florida State University has a long history of providing recognition and support for outstanding students. Through honors programs and honor societies, the University encourages excellence in all of its students. On Honors Night and throughout Honors Week, the University salutes students who have received institution-wide recognition for academic achievement.

The University's tradition of holding a ceremony honoring students for their academic achievements extends back over 60 years. The first "Honors Day" was held on May 4, 1936, and Honors Night continues to be held on the Thursday of the next-to-last week of classes in each spring term. Students recognized include those elected to University-wide honor societies and those designated Outstanding Freshmen and Outstanding Upperclassmen. Special awards are bestowed by the societies. Honors Week is an extended period, centering on Honors Night, of scholarly awards and activities when departmental and college honor groups hold their individual recognition ceremonies. This cherished tradition is under the aegis of the Honors Week Committee, which comprises the presidents of the honor societies.

Some students first achieve academic excellence in high school, some in community college, and some after choosing a challenging major at The Florida State University. The University has such a wide range of honors programs and honor societies that it has the flexibility to recognize and encourage at every stage those students who demonstrate high academic achievement. The information below provides an overview of the University Honors Program and a brief introduction to the academic honor societies.

University Honors Program

Director: Paul Cottle;

Associate Director: Diane J. Dowling;

Assistant Director: Debra L. Carruth

<http://www.fsu.edu/~honors>

The Florida State University Honors Program is nourished by strong liberal arts roots planted in the early twentieth century. Florida State University is the home of the first Phi Beta Kappa chapter in Florida, and the University Honors Program supports the University's long tradition of academic excellence by offering two intellectually challenging curricula—the Liberal Studies Honors Program and the Honors in the Major Program. The University broadly supports the Honors Program, with more than 300 Florida State faculty members teaching honors courses and serving on honors thesis committees each year.

The University Honors Program also provides opportunities for The Florida State University's academically talented students to interact with each other. Students are invited to attend guest lectures, enjoy picnics, parties, other social activities, and

volunteer for worthy causes. The honors program staff helps to arrange these opportunities, but most of the planning is done by the Honors Council, an elected board of honors students who act as a liaison between honors students, administration, and student government. They also represent the program at state and national conferences. Honors students are visible within The Florida State University for their academic attainments. They are sometimes called upon to represent the student body at official University functions, to work with prospective students, and to serve in a variety of other ways.

Students in the University Honors Program are given special notice of internship opportunities and postgraduate fellowships and scholarships. The most prestigious awards such as the Rhodes, Fulbright, Marshall, Mellon, Goldwater, McKnight, and Rotary require much advance preparation. Honors students are given early encouragement to consider applying for these awards, and interested students with potential for competing at this level are given special advising. A list of advisors for these and other major national fellowships and scholarships is available on the honors website.

The University Honors Program comprises two distinct honors curricula. The Liberal Studies Honors Program provides elite courses for students who are pursuing the liberal studies and other University requirements. Honors in the Major provides a chance for students to do independent research or creative projects during their junior and senior years. Both programs are designed to allow academically talented students to develop to their fullest potential by encouraging independent thinking, "tailor-made" university experiences, and close interaction with faculty members.

Liberal Studies Honors Program

In the Liberal Studies Honors Program, students choose special, limited enrollment courses, most of which fulfill liberal studies or University requirements. The three basic types of liberal studies honors courses open to all honors students are:

Honors Seminars. These are three (3) semester hour, special topics courses that count toward graduation, and fulfill liberal studies and Gordon Rule requirements in the humanities (HUM 2937r), natural sciences (ISC 2937r), or social sciences (ISS 2937r). Each seminar is typically limited to 15 honors students.

Honors Sections. These special sections of regular liberal studies courses are offered to honors students only. Each section is typically limited to 25 honors students.

Honors-Augmented Courses. These are regular courses open to all students in which the professor has agreed to engage in special projects with honors students for honors credit. Honors-augmented courses are arranged in advance by the University Honors Program.

The University Honors Colloquium is required for honors students in their **first fall term** at The Florida State University. This one (1) semester hour weekly forum features lectures by distinguished University faculty from across the scholarly and creative arts spectrum, as well as informative presentations from directors of academic programs that will be of interest to honor students. With the ongoing theme, "Art and Inquiry in the Modern University," the colloquium provides a common intellectual experience for new honors students, and also introduces students to the culture and opportunities of a modern research university.

Honors courses are listed on the honors website prior to each registration period. Honors-augmented courses are offered every term, including summer. Honors seminars and Honors-only sections are normally offered only in the Fall and Spring terms.

Following orientation, students in the Liberal Studies Honors Program have priority registration for all Florida State University courses. Undeclared students in this program are advised by the Honors office staff at orientation and in subsequent terms until they choose a major. The University Honors Office offers support to all honors students, and regularly distributes information on special academic programs, internships, and other opportunities.

Admission Requirements

High School Seniors. To be considered at the beginning freshman level for the Liberal Studies Honors Program, a student must be invited to apply to the program. All high school seniors who have been admitted to the University with at least a 3.9 Florida State University-weighted high school academic grade point average (GPA) and a test score of at least 1300 on the SAT or a 29 on the ACT are automatically invited to apply. National Merit and National Achievement finalists are also automatically invited to apply.

Currently Enrolled Florida State University Students

Freshmen with a 3.8 GPA on at least twelve (12) graded semester hours earned in their first term at The Florida State University may apply to join the Liberal Studies Honors Program. Applications must be submitted before the end of the drop/add deadline for the next academic term. University students, including transfer students, with more than eighteen (18) semester hours may ask about

taking honors courses on a space-available basis if they have earned a 3.8 GPA after one college term or a 3.5 GPA after two or more terms.

Retention

Students remain in the Liberal Studies Honors Program as long as they maintain at least a 3.2 cumulative GPA and make progress toward completion of the program. Details about the Liberal Studies Honors Program, including registration and retention, are given at the required honors session during orientation, and may also be obtained by contacting the University Honors Program Office or going to the honors website.

Completion of Liberal Studies Honors

To finish the Liberal Studies Honors Program, a student must complete eighteen (18) semester hours of honors courses. Freshman students entering The Florida State University who bring in three (3) or more semester hours of Advanced Placement or International Baccalaureate credits may count three of these semester hours as honors credit. Students complete their honors coursework at roughly the same pace as their liberal studies requirements. Students in certain majors may take up to four years to finish liberal studies and the Liberal Studies Honors Program; other students, especially those who bring in a significant amount of exemption credit or other college credit, may finish liberal studies and the Liberal Studies Honors Program in the first or second year.

To count toward completion of the program, an honors course must have been completed with a grade of “C–” or better. Honors-augmented courses will be counted toward completion if a grade of “B–” or better is earned and an honors project is completed satisfactorily. Students who successfully finish eighteen (18) semester hours in honors courses with a 3.0 honors GPA and a 3.2 overall GPA are designated as having “completed” the Honors Liberal Studies Coursework requirement; these students:

1. Remain members of the University Honors Program and retain priority registration until graduation;
2. Will have honors completion noted on the transcript; and
3. Remain eligible to take honors courses on a space-available basis. Interested students should contact the University Honors Program Office during the official drop/add period.

Honors Housing

The Landis–Gilchrist 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. Landis–Gilchrist is also the setting for many honors extracurricular activities.

The honors residence complex is reserved for students who have been accepted into the Liberal Studies Honors Program. Students who hope to

join the Liberal Studies Honors Program may ask to be assigned to Landis or Gilchrist, or they are free to choose other residence halls. Students who are accepted into the Honors Program and request Landis–Gilchrist will be assigned to the honors complex on a first-come, first-served basis. Preference is determined by the order in which housing applications are received by the Office of University Housing. Students in the Liberal Studies Honors Program may not participate in certain living-learning communities, such as Bryan Hall and Broward Hall. If invited to join the Honors Program and the Bryan or Broward living-learning community, the student can participate in only one of these programs. See the “Housing” chapter of this *General Bulletin* for additional information concerning the Landis–Gilchrist Honors Residence Complex.

Bess Ward Honors Travel Scholarships

Both Liberal Studies Honors students and Honors in the Major students may be eligible to apply for Bess Ward Honors Travel Scholarships. These one-time-only competitive scholarships help cover travel costs and personal expenses for one semester for honors students attending one of the Florida State University International Programs. Guidelines are available online at <http://www.fsu.edu/~honors>.

Honors in the Major

Many colleges, schools, and departments of The Florida State University offer an honors curriculum in the major. Honors work at the major level is carried out by the student over a period of two or three terms with the aid of three faculty members. The honors project culminates with the defense of a written thesis before the faculty committee. Upon successful defense of the thesis, the student may graduate with Honors in his or her major. Honors work is available only in a department from which the student plans to earn a bachelor’s degree. A double major must choose a single major for Honors work; however, the project may include themes related to the second major.

Honors in the Major is designed to encourage talented juniors and seniors to undertake significant independent and original research as part of the undergraduate experience. Honors in the Major students work closely with faculty members in mentoring relationships that characterize the best teaching at a major university. Successful Honors in the Major graduates find that the experience is especially useful later in graduate and professional school and in their careers.

Honors in the Major is available in the following schools and departments: Accounting; American and Florida Studies; Anthropology; Art; Art Education; Art History; Asian Studies; Biological Science; Chemical Engineering; Chemistry and Biochemistry; Classical Languages, Literature, and Civilization; Communication; Communication Disorders; Computer Science; Criminology and Criminal Justice; Dance; Economics; Electrical and Computer Engineering; Elementary and Early

Childhood Education (elementary education only); English; Family and Child Sciences; Finance; Geography; Geological Sciences; History; Hospitality; Humanities; Industrial Engineering; Interior Design; International Affairs; Latin American and Caribbean Studies; Management; Management Information Systems; Marketing; Mathematics; Mechanical Engineering; Meteorology; Middle and Secondary Education; Modern Languages and Linguistics; Motion Picture, Television, and Recording Arts; Music; Nursing; Nutrition, Food and Exercise Sciences; Philosophy; Physics; Political Science; Psychology; Religion; Risk Management/Insurance and Real Estate; Russian and East European Studies; Social Science; Social Work; Sociology; Special Education; Statistics; Textiles and Consumer Sciences; Theatre; and Women’s Studies.

Note: if your major is not listed above, and you would like to participate in Honors in the Major, please contact the Honors Program office.

Admission Requirements for Honors in the Major

Since some departments set higher requirements, students should also check with their academic major advisors. The University Honors Program requires that the prospective honors student have at least sixty (60)—preferably seventy-five (75)—semester hours and at least a 3.2 cumulative GPA. Transfer students must have a 3.2 overall GPA, including all transfer work, and a 3.2 GPA on at least twelve (12) Florida State University 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 (60) semester hours average 3.2 and the recent Florida State University GPA is at least 3.2 on twelve (12) semester hours.

The semester **before** starting the Honors in the Major Program, students should contact the Honors office to make a formal application to the program. The application shows that the student has the required grades and credits, a proposed thesis topic, sufficient time prior to graduation to complete the project, a directing professor, and the support of the academic department.

As part of the application process, each student is referred to an “Honors Liaison” in the major department. The Honors Liaison is the faculty member in each department who gives advice on Honors in the Major, how the program fits into the major, and any additional requirements the individual department may have for its honors students.

Completion of the Honors Thesis

Typically, each Honors in the Major student works on the thesis project for two or three terms. During each of these terms, the student must enroll in one (1) to three (3) semester hours of honors work. Honors in the Major students must earn six (6) to nine (9) honors credits and must receive at least a “B–” in each of these courses. Honors in the Major students must also maintain at least a 3.2 cumulative GPA until graduation. Several departments have additional requirements; con-

tact the honors office or the honors liaison for specifics. A list of liaisons is given on the Honors website

Each honors student works with a faculty supervisory committee comprised of a directing professor from the major, one additional professor from the major, and one professor from another department. Students are generally free to choose the professors for their committee. The directing professor is the official instructor of the honors thesis course, but all three professors contribute their expertise. Committee members must be full-time tenure-track faculty or visiting scholars approved by the Honors Program.

A prospectus is due to the University Honors Program Office the term before the thesis is finished. This brief paper states the nature of the honors project, its scope, and its methodology. The prospectus must be approved by all three professors on the committee. Students also must submit a brief progress report at the end of each term they are enrolled in honors work prior to the term the thesis is defended.

The honors student defends the finished thesis in a meeting with the faculty committee. Following a successful defense, the student must submit one bound hard copy and one electronic copy of the completed thesis to the University Honors Program office no later than the Friday before finals week of the term in which the student graduates. The bound copy must bear the faculty committee members' original signatures on the title page. The Honors Program places the bound copy of the thesis in a permanent collection in the Strozier Library and the electronic copy is archived in the honors office. Further details and specific deadlines are available from the University Honors Program Office or at the honors website.

Students who participate in Honors in the Major are members of the University Honors Program and are eligible for all program activities. They are also eligible, on a space-available basis, for honors liberal studies courses (see above). Students who finish the program are recognized on their transcript and at commencement.

Courses

The following is an alphabetical list of the officially approved courses that students take as they work on their honors thesis.

ACG	4970r	Honors Thesis in Accounting
AMS	4913r	Honors Work in American Studies
ANT	4914r	Honors Work in Anthropology
ARH	4815r	Honors Work in Art History
ART	4981r	Honors Work in Art
ASN	4970r	Honors Thesis in Asian Studies
BSC	4974r	Honors Work in Biological Science
CCJ	4909r	Honors in Criminology
CHM	4906r	Honors Work in Chemistry
CIS	4933r	Honors Work in Computer Science
CLA	4909r	Honors Work in Classical Languages, Literature, and Civilization
COM	4909r	Honors Work in Communication

CTE	4970r	Honors Work in Textiles and Consumer Sciences
DAN	4900r	Honors Study in Dance
ECH	4906r	Honors Work in Chemical Engineering
ECO	4934r	Honors Work in Economics
EDE	4970r	Honors Work in Elementary Education
EEL	4906	Honors Work in Electrical Engineering
EEX	4970r	Honors Work in Special Education
EIN	4934r	Honors Thesis in Industrial Engineering
EML	4970r	Honors Work in Mechanical Engineering
ENG	4936r	Honors Thesis in English
EUS	4970r	Honors Thesis in Russian and East European Studies
FIL	4975r	Undergraduate Honors Thesis in Film
FIN	4970r	Honors Thesis in Finance
FRE	4935r	Honors Thesis in French Language
GEO	4932	Honors Work in Geography
GER	4935r	Honors Thesis in German Language
GLY	4989r	Honors Work in Geology
HFT	4970r	Honors Thesis in Hospitality
HIS	4936r	Honors Work in History
HOE	4972r	Honors Work in Family and Child Sciences
HUM	4907r	Honors Work in Humanities
HUN	4913r	Honors Thesis in Nutrition, Food, and Movement Sciences
HUN	4931	Honors Seminar in Nutrition, Food, and Movement Sciences
IND	4970r	Honors in the Major in Interior Design
INR	4937r	Honors Work in International Affairs
ISM	4970r	Honors Thesis in Management and Information Sciences
ISS	4907r	Honors Work in Social Science—Interdisciplinary
ITA	4935r	Honors Thesis in Italian Language
LAE	4937r	Honors Work in Language Arts and English Education
LAS	4935r	Honors Work in Latin American and Caribbean Studies
LIS	4970r	Honors Work in Information Studies
MAN	4970r	Honors Thesis in Management
MAR	4970r	Honors Thesis in Marketing
MAT	4934r	Honors Work in Mathematics
MET	4900r	Honors Work in Meteorology
MUS	4904r	Honors Study in Music
NUR	4975r	Honors Thesis in Nursing
PHI	4912r	Honors Work in Philosophy
PHY	4970r	Honors Work in Physics
POS	4936r	Honors Work in Political Science
PSY	4039	Honors Work in Psychology
REE	4970r	Honors Thesis in Real Estate
REL	4932r	Honors Work in Religion
RMI	4970r	Honors Thesis in Risk Management/Insurance

RUS	4935r	Honors Thesis in Russian Language
SOW	4911r	Honors Work in Social Work
SPA	4970r	Honors Thesis in Communication Disorders
SPN	4935r	Honors Thesis in Spanish Language
STA	4970r	Honors Thesis in Statistics
SYA	4931r	Honors Work in Sociology
THE	4917r	Honors Work in Theatre
WST	4970r	Honors Thesis—Women's Studies

Academic Honor Societies

The Florida State University sponsors chapters of many academic honor societies, some University-wide, and some specific to individual disciplines. These societies recognize students who have excelled academically and in some cases provide opportunities for service to the University and community.

Standards for the Recognition of University-wide Honor Societies

General standards for recognition

A. A society may be recognized as a Scholastic Honor Society or as a Leadership/Scholastic Honor Society.

B. The society must be approved for recognition by a body to be appointed by the University President or his/her designee.

C. The society must demonstrate membership participation in governance and control at both the national (if a national organization) and chapter levels.

D. Full financial disclosure is required at both the national (if applicable) and chapter levels.

E. Only the institutional chapter may extend invitations to individuals for membership.

F. To be considered University-wide, a society must receive into membership persons from a broad range of academic disciplines.

Standards for membership eligibility

A. Membership shall be conferred on the basis of character and specified scholastic, leadership and service eligibility.

B. Eligibility criteria here specified are minimum ones; societies may have higher standards.

Scholastic Honor Societies. Eligibility is primarily based upon scholarship.

1. Upper-division/Graduate Societies.

a. Must be in the top twenty percent (20%) of their class scholastically;

b. Undergraduates must have earned at least sixty (60) semester hours, with at least twenty-four (24) graded semester hours at this institution; and

c. Graduate and professional students must have earned at least twenty-four (24) graded semester hours at this institution.

2. Lower-division Societies
 - a. Must be in the top twenty percent (20%) of their class scholastically;
 - b. Must have earned at least twelve (12) graded semester hours at this institution.

C. Leadership/Scholastic Honor Societies. Eligibility is based upon scholarship, leadership and service to campus and the community. There is no distinction made by class.

1. Minimum overall 3.0 GPA, with at least twelve (12) graded semester hours at this institution; and,
2. Leadership and service to be determined by the society.

University-wide honor societies officially recognized by The Florida State University are listed below, and can also be found at the Honors program website. The discipline-specific societies listed next are under the jurisdiction of the appropriate college, school, 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 in the liberal arts and sciences. The society was formed in 1776. The Florida State University chapter, chartered in 1934 and established in 1935, was the first in Florida. The chapter's activities include recognition of outstanding juniors and graduating seniors and sponsorship of visiting speakers of University-wide interest. New members are automatically invited each fall and spring based on major, grades (minimum 3.9 GPA for juniors and 3.6 GPA for seniors), language study, and other criteria.

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 (7.5%) of their respective colleges or schools. Seniors must be in the upper ten percent (10%) of their respective colleges or schools. Graduate and professional students must rank in the upper ten percent (10%) of their respective colleges or schools. All students must have at least twenty-four (24) earned semester hours at The Florida State University.

Founded in 1977, **Golden Key International Honour Society** honors undergraduate academic achievements. The Florida State University chapter was chartered in 1984. The University chapter awards the Outstanding Undergraduate Scholar Award twice a year and regularly sponsors projects in local schools and a number of community service projects. The chapter has been named The 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 sixty (60) semester hours

(twenty-five [25] of which must be at The Florida State University) and in the top fifteen percent (15%) of the junior or senior class.

Phi Eta Sigma is a national honor society whose goal is to encourage and reward academic excellence among freshmen in institutions of higher learning. The oldest and largest freshman honor society, Phi Eta Sigma was founded in 1923 and chartered at The Florida State University in 1955. Phi Eta Sigma now has more than 300 chapters throughout the United States with over 700,000 members. All students who have a cumulative grade-point average of at least 3.5 GPA at the end of any full-time curricular period during their freshman year are eligible for membership. Lifetime membership is conferred upon induction, and maintaining the grade-point average is not required. The Florida State University chapter undertakes several service projects, including peer academic advising.

Leadership/Scholastic Societies

The **W.E.B. DuBois Honor Society**, organized 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 19th and 20th centuries. The purpose of the DuBois Society is to recognize academic excellence among African-American students and to support, guide, and encourage their involvement in other leadership and honorary organizations at The Florida State University. The grades of all full-time African-American undergraduate students will be automatically reviewed for eligibility each fall. If eligible, students will be invited to join the society. To qualify, candidates must have achieved a 3.0 cumulative GPA at The Florida State University and must have earned at least thirty (30) semester hours at this university. Transfer students will be considered for eligibility on an individual basis. For more information, contact the *Undergraduate Studies Dean's Office*, A3300 University Center, Tallahassee, FL 32306-2460 or call (850) 644-2740 or e-mail MAPhonors@admin.fsu.edu.

Omicron Delta Kappa is the national leadership honor society for faculty and students. The society was founded in 1914 and came to The 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 a homecoming breakfast honoring outstanding Florida State University alumni; participation in the Leadership Summit, in Leadership Awards Night and the newly established 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 "outstanding circle in its province." Applications are sought twice a year, and members are chosen on the basis of scholarship (upper thirty percent [33%] of junior, senior, or graduate class), leadership, and service.

Mortar Board is a national honor society for college seniors. The national organization was founded in 1918 and the Florida State University chapter in 1931. Each year Mortar Board spon-

sors activities to provide service, advance the spirit of scholarship, and facilitate cooperation among honor societies. Every spring, juniors in the upper thirty-five percent (35%) of their class are invited to apply. Members are selected on the basis of scholarship, leadership, and service.

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 twelve (12) semester hours at that campus with a GPA of 3.5 or higher.

The **Oscar Arias Sanchez Honor Society** (OASHS) was formed in the fall term of 1992 to recognize academic excellence among students of Hispanic heritage. Membership into the OASHS shall be granted to those sophomores, juniors, seniors, and transfer students of Hispanic heritage who have attained a 3.0 GPA or above, and who have fulfilled the required service projects. The OASHS is a scholastic/leadership society. To become a member of this organization, contact *Undergraduate Studies Dean's Office*, A3300 University Center, Tallahassee, FL 32306-2460 or e-mail CAREhonors@admin.fsu.edu.

Garnet and Gold Key is a leadership honorary society unique to The Florida State University. It was founded over 50 years ago to recognize outstanding and diversified student leadership. The society's annual activities include Torch Night, to recognize the top 100 incoming freshmen and The Ross Oglesby Award, given to distinguish one outstanding faculty member who has dedicated 10 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 both grades (3.0 minimum GPA) and diversified leadership abilities (at least two separate areas of leadership.)

Other Societies

Phi Theta Kappa is the honor fraternity of America's two-year colleges. The National Alumni Association offers former active members the opportunity to remain affiliated after they transfer. Phi Theta Kappa was founded in 1918; The Florida State University has had an alumni chapter since 1982.

Academic Honor Societies Specific to Certain Disciplines

College of Arts and Sciences

Anthropology students are eligible to join **Pi Gamma Mu**. See "College of Social Sciences" below.

The honors organization of the **Department of Classical Languages, Literature and Civilization** is **Eta Sigma Phi**, founded in 1924 to promote the study and appreciation of classical lan-

guages and literature. The University chapter, organized in 1926, is the oldest active chapter in the United States. The chapter arranges lectures, poetry readings, slide presentations, movies, translation contests in Greek and Latin, and tours. New members are invited twice a year, based on a "B" average in Greek and Latin courses.

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). Undergraduate majors must have completed sixty-four (64) semester hours of study, including eighteen (18) semester hours in computer science, and have at least a 3.2 GPA overall and within the major. Graduate students in computer science must have completed twelve (12) semester hours of graduate work with a GPA of 3.5 or better.

The **Department of English** sponsors a chapter of the **Lambda Iota Tau** literary honor society. The society is open to majors and minors in **English and Modern Languages and Linguistics** who have completed sixty (60) 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, and an annual poetry contest for Leon County middle schools. Interested students should submit an initiation paper and fee to the Director of 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 (12) semester hours in history with a 3.2 GPA and a 3.0 overall GPA. Graduate students need twelve (12) 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 The 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.

Chi Epsilon Pi is the honor society for outstanding students in the **Department of Meteorology**. The Florida State University chapter has existed since 1966. In order to be eligible for membership, graduate students must have nine (9) (thesis plan) or fifteen (15) (nonthesis plan) semester hours earned through the Department of Meteorology. The graduate student must also have a 3.25 or better GPA for meteorology courses and an overall GPA of 3.0 or higher. Undergraduate students are eligible upon completion of seventeen (17) meteorology semester hours if their GPA in

meteorology courses is 3.25 or higher. Other criteria exist for junior level and special students. Students are inducted each spring.

The **Department of Military Science** fosters a chapter of the national organization **Scabbard and Blade**. The chapter participates in various civic and Reserve Officer Training Corps (ROTC) activities. Invitations are extended once a year based on membership in the Advanced ROTC Program, a "B" average, and standing in the top fifty percent (50%) of ROTC students. Initiation includes a service project.

The **Department of Modern Languages and Linguistics** has six honor societies, each with a different language of focus:

French. Pi Delta Phi has long been established at The Florida State University and inducts major and minor students on the undergraduate and graduate levels. Prospective members must have an overall GPA of 2.8 and 3.0 in French classes, with at least one French class on the 3000 level. The French faculty are all members of the society. 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.

German. Delta Phi Alpha has had a chapter at the University since 1979. New members may apply once a semester. Minimum requirements include a 3.5 GPA in German and a 3.0 overall GPA, plus three (3) German courses completed or in progress with "A-" average.

Italian. Gamma Kappa Alpha was organized in 1983; the University chapter followed in 1984. The chapter sponsors a weekly Italian Table for students. New members are invited each spring. Membership is open to undergraduate Italian majors with a minimum 3.0 GPA overall and 3.5 in Italian.

Slavic (including Russian). Dobro Slovo was founded in 1926; the University has had a chapter since 1972. The chapter sponsors a high school language competition, lectures, and movies. Each spring, students apply, or are invited, based on two years of study of Slavic languages and related subjects with a "B+" average and an overall "B" average.

Spanish. Sigma Delta Pi is the honor society for students of Spanish, and has had a chapter at the University since 1935. Sigma Delta Pi offers students competitive opportunities to study abroad. Students are initiated once a year. Undergraduates must have a 3.2 GPA in Spanish and must rank in the top thirty-five percent (35%) of their class. Graduate students are also eligible.

Phi Sigma Iota, the International Foreign Language Honor Society, is the highest academic honor in the field of foreign languages, literature and cultures, including classics, linguistics, philology, comparative literature, and bilingual education. Membership is awarded to junior and senior undergraduates with at least a 3.0 overall GPA and at least one 3000-level language course. Graduate students must have completed at least one (1) semester of graduate work and must have attained at least a "B+" average in all courses taken.

Sigma Pi Sigma is the national honor society in the **Department of Physics**. The organization was founded in 1921 and came to the University in 1954. New members are invited once a year, chosen from among physics majors who have at least a "B" average in physics as seniors or advanced juniors.

The **Department of Psychology** fosters a chapter of **Psi Chi**, a national honor society founded in 1929. The University chapter, in existence since 1959, has concentrated on activities that help majors with their future plans. Students may apply for membership twice a year. Psychology majors or minors must have completed nine (9) semester hours of psychology with a minimum 3.2 overall GPA and 3.0 psychology GPA.

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.

Beta Alpha Psi is the national scholastic and professional fraternity of the **Department of Accounting**; the University chapter was established in 1962. The society 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 accounting majors, both undergraduate and graduate, who are currently enrolled or have completed at least one accounting course and have met grade point requirements in accounting, and overall, may apply for membership. New members are initiated in the Fall and Spring semesters.

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 3.00 overall GPA are eligible to apply at the beginning of each semester.

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. Undergraduates must have a 3.0 GPA and graduate students a 3.25 GPA, among other requirements.

College of Communication

Lambda Pi Eta, a national communication honor society, had its charter year at the college in 1989. The purposes of the society shall be to: 1) 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 rela-

tionships 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 or communication disorders major; to have completed at least fifteen (15) semester hours in communication and sixty (60) hours overall; 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 (6) semester hours, and no unsatisfactory grades (U). New members are invited, at the beginning of each Fall and Spring semester.

School 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 The Florida State University. The student must be recommended by the local chapter advisor or a faculty member. Undergraduates must maintain a 3.0 overall GPA and a 3.2 GPA in their major courses. The student must also rank in the top thirty-five percent (35%) of their class and have completed a minimum of four (4) courses within the criminal justice curriculum. The honorary is open to students with a declared criminal justice major or minor.

College of Education

Kappa Delta Pi has had a chapter at the University since 1925. Students are invited twice a year, or may apply. They must have twelve (12) semester hours of professional education courses. Undergraduates must have a "B" in all college work and graduates a "B+." A minimum GPA of 3.0 is required for initiation.

Phi Delta Kappa has had a chapter at the University since 1953. The group sometimes 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. Members must have as their primary outcome professional involvement in education.

Rho Phi Lambda is the national honorary fraternity for the recreation, park, and leisure services profession. The original Rho Phi Alpha honorary fraternity was founded at North Carolina State College in 1958. In 1985, the eleven chapters of Sigma Lambda Sigma honorary fraternity (originally founded at The Florida State University in the 1960s) were merged with the six original Rho Phi Alpha Chapters to become Rho Phi Lambda; the society now has over 30 chapters throughout the United States. Membership is based on outstanding scholarship, leadership in service to the community and to the University, and service to the profession.

College of Engineering

Tau Beta Pi, the College of Engineering's most prestigious honor society was formed in 1985 as the Engineering Honor Society. It was chartered and installed at the FAMU—FSU College of Engineering on February 29, 1992 as the Florida Eta Chapter of Tau Beta Pi. The Tau Beta Pi Honor Society recognizes outstanding scholarship and exemplary character, with emphasis on community service and upholding the engineering canon of ethics. New members are invited twice a year to join Tau Beta Pi based on academic standards and exemplary character. New members must be in the upper one-fifth of all engineering seniors or upper one-eighth of engineering juniors.

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 Pi Chapter. Kappa Omicron Nu recognizes and encourages excellence in scholarship, research, and leadership. Undergraduates must have sixty (60) semester hours (at least eighteen [18] of which were completed at The Florida State University) with a minimum 3.3 GPA. Graduate students must have twelve (12) semester hours with a minimum 3.5 GPA. New members are initiated at least once a year.

School of Information Studies

Beta Phi Mu, the Library and Information Studies International Honors Society, was founded in 1948, with the headquarters housed in the School of Information Studies at The Florida State University. In 1957, the School of Information Studies founded the Gamma Chapter representing local members. Graduate students are invited to join once a year based on a 3.75 GPA and ranking in the top twenty-five percent (25%) of that year's graduating class.

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 (10%) of the graduating class.

College of Medicine

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, pharmacy, and 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 3.0. Freshmen and sophomores are encouraged to participate in activities of the society. The Florida-Beta chapter at The 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 Florida State University **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 Health Professions Advising Office.

The **Pre-Veterinary Society** is an organization that provides an environment where students can expand their interests in veterinary medicine. Members will build a strong support group to share information about coursework, the application process, and volunteer opportunities in the Tallahassee area. A focus will be assisting the community with animal-related issues. Membership information is available through the Health Profession Advising Office.

School 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 (10%) of the class; seniors, in the top twenty percent (20%); graduate students must have an "A" in at least two-thirds of their courses.

School 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 promotes health and illness prevention through the advancement of nursing leadership, scholarship, and administration. The society offers scholarships to graduate and undergraduate nursing students and lends partial support for alumni and faculty research and continuing education. 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 (35%) of their class, with a minimum GPA of 3.0. Graduate students are eligible for consideration once they have completed one-fourth of the graduate nursing program, provided they have a GPA of 3.5 or better.

College of Social Sciences

Pi Gamma Mu is open to students in **anthropology, Asian studies, economics, geography, history, international affairs, political science, public administration, Russian and East Eu-**

ropean studies, social science, sociology, and urban and regional planning. The University chapter was founded in 1975. Students must have a minimum of twenty (20) 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 (35%) of their classes. Prospective members are also expected to have extracurricular activities related to the social sciences.

The **Department of Economics** hosts the Gamma chapter of the **Omicron Delta Epsilon** International Honor Society in Economics. Undergraduate requirements for membership are: junior or senior classification; a minimum of twelve (12) semester hours of economics courses completed; a minimum overall GPA of 3.0; and a minimum 3.0 GPA in economics courses. Graduate students must have completed at least one (1) semester of graduate work with at least a 3.0 GPA. Applicants from all majors are welcome.

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 (3) courses, and must have completed at least three (3) semesters of college course work.

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 (12) 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 (21) completed semester hours, both in their degree program.

School of Social Work

The **School 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 a 3.25 overall GPA with twelve (12) semester hours completed in social work. Graduate students must have a 3.5 overall GPA with nine (9) semester hours completed in social work.





COLLEGE OF ARTS AND SCIENCES

Dean: Donald J. Foss; *Associate Deans:* Timothy Moerland, Joseph McElrath, George Weaver

A university education, properly realized, must be built upon an intellectually broadening program of study in the liberal arts. As critic Mark Van Doren has observed, "Liberal education makes the person competent—not merely to know or do, but also, and indeed chiefly, to be." The essential curriculum of a college education, Van Doren explained, teaches students to learn progressively the arts of investigation, discovery, criticism, and communication. The Florida State University's liberal studies curriculum, which is grounded firmly in courses offered by the College of Arts and Sciences, helps to develop these crucial intellectual values and critical skills in all undergraduate students. Majors in the College of Arts and Sciences, furthermore, enjoy the privileges and benefits of developing a richer appreciation of the humanities and the sciences—an appreciation that enhances the quality of students' lives morally, intellectually, and professionally.

The oldest college at the University, the College of Arts and Sciences has provided generations of undergraduate students instruction in the liberal arts disciplines that are essential for intellectual development and personal growth: English and mathematics, history, the humanities, and the physical, biological, and behavioral sciences. At the graduate level, too, the contributions of the College of Arts and Sciences have been integral with the growth 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 1911, and the first doctorate at The Florida State University was awarded in chemistry in 1952.

Over the decades, various professional schools have been established at the University, and several colleges and schools have separated from the College of Arts and Sciences to become individual administrative entities. Today, 75 percent of the Liberal Studies Program and over 40 percent of University instruction, generally, are offered by the College of Arts and Sciences. Furthermore, the college conducts a large percentage of the sponsored research at the University. Currently, the College of Arts and Sciences annually awards the largest number of doctoral degrees at the University.

The College of Arts and Sciences comprises 19 departments, 17 centers and institutes, and 11 interdisciplinary programs. In addition to awarding bachelor of science (BS), bachelor of arts (BA), master of science (MS), master of arts (MA), and doctor of philosophy (PhD) degrees, and heavily supporting the Liberal Studies Program, the College of Arts and Sciences offers an extensive array of foundation courses for preprofessional and professional programs.

College of Arts and Sciences faculty have earned national and international recognition for research, teaching, and distinguished service to the profession. The faculty of the college has included seven members of the National Academy of Sciences, three Nobel Laureates, a Pulitzer Prize winner, directors of national commissions, university presidents, and numerous winners of other national or international honors. Locally, University committees have named several arts and sciences faculty Daisy Parker Flory and McKenzie Professors, and more than two dozen of the college's faculty have been selected University Distinguished Professors. More than 150 arts and sciences faculty members have won University Teaching and Advising awards, Developing Scholar awards, and Martin Luther King, Jr. Distinguished Scholar awards.

Students in the College of Arts and Sciences have been recipients of a wide variety of honors, including a Rhodes Scholarship, Time Magazine and Rotary awards, McKnight and Patricia Roberts Harris Fellowships, professional society scholarships, and other nationally recognized awards. Among the graduates of the college are scientists, writers, doctors, chief executive officers of major corporations, lawyers, school and college teachers and administrators, and other highly regarded professionals.

Facilities

The College of Arts and Sciences is housed in 21 buildings on the main campus and at off-campus field stations. Arts and sciences research activities are conducted at various locations around the world—from an archaeological site in Cetamura, Italy, to the Antarctic. Special facilities of the college include the **Van de Graaf Nuclear Accelerator**, the **Proton-Induced X-Ray Emission Laboratory**, the **Statistical Consulting Center**, and the **Marine Laboratory** on Apalachicola Bay. In addition, the **National Park Service's Southeast Archaeological Center** is a major repository of artifacts heavily used by anthropology majors. The college also staffs a large number of other specialized research and teaching laboratories: computer laboratories, radioisotope laboratories, a nuclear magnetic resonance lab, fluid dynamics and ocean modeling labs, language and writing labs, and other facilities. Faculty and students from several departments and programs in arts and sciences conduct research on the supercomputer and other large-scale computers at the **School of Computational Science and Information Technology**. The **National High Magnetic Field Laboratory** at Innovation Park also provides superb research experiences for faculty and students. Many departments maintain their own libraries of journals, books, and reference materials.

Opportunities

Departments in the College of Arts and Sciences work with various programs, schools, and colleges to offer cooperative and interdisciplinary degree programs. For example, majors in the college may pursue bachelor of arts (BA) degrees in English or modern languages with an emphasis in business, and they may apply for the one-year joint baccalaureate/MBA program. Editing internships in the Department of English offer excellent preprofessional experience; the secondary science and/or mathematics teaching major certifies students to teach in two discipline areas, and several science departments provide hands-on research opportunities for undergraduates. Humanities, American studies, and Latin American and Caribbean studies majors are taught by faculty from several departments in the College of Arts and Sciences. An arts and sciences major may minor in journalism through the cooperative program offered with Florida Agricultural and Mechanical University. Students in arts and sciences help to edit and publish two campus literary magazines and often work on the staff of campus newspapers. Additionally, administrators, faculty, and students in arts and sciences are major participants in the Florence and London overseas study programs.

Unique Residential Halls

The College of Arts and Sciences sponsors two residence-based learning communities, the **Bryan Hall Learning Community** and a program for **Women in Math, Science, and Engineering (WIMSE)**. These programs are available to students residing in Bryan Hall and Jennie Murphree Hall, respectively. The Bryan Hall experience, available to first-year undergraduate students regardless of intended major, integrates residential life and academic life in a way that is unique on the University campus. The WIMSE program provides support for undergraduate women in the specified academic areas by offering role models, guest speakers, panel discussions, tutoring, opportunities for field trips, etc. Students seeking more information about either of these two programs should inquire of the University Housing Office.

Scholarships and Awards

Students in the College of Arts and Sciences are eligible for various types of scholarships and grants administered centrally by the University. Specifically within the college, the Uhrhan Scholarship provides a two-year award for an outstanding rising junior majoring in mathematics, physics, or modern languages. The College of Arts and Sciences also gives an award to every major

elected as a junior to Phi Beta Kappa. All departments in the college administer undergraduate scholarship and award 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 (52) or more semester hours of accepted credit. Successful completion of CLAST also is required. Admission to the College of Arts and Sciences requires at least a 2.0 grade point average (GPA) in prior academic work and that the student be in good standing with the University. Since individual departments may stipulate higher admission standards, students should consult the appropriate chapter of this *General Bulletin* for specific requirements.

Students who wish to pursue graduate study in the College of Arts and Sciences must apply through the Office of Admissions and must be accepted for graduate study by the intended department or program. Those interested in graduate work in the college should therefore consult the "College of Arts and Sciences" entry and departmental or program chapters of the *Graduate Bulletin*.

Students enrolled in the College of Arts and Sciences may concurrently prepare for, and become certified in, various professional programs. This is made possible by the cooperation of professional schools within the University with various College of Arts and Sciences departments that have established programs with special emphasis in certain professional areas.

Requirements for Baccalaureate Degrees

Liberal Studies. All areas of liberal studies must be satisfactorily completed. Students must have an overall GPA of at least 2.0 in their liberal studies courses. Students who entered the upper division after summer 1983 must have a "C-" or better in each course in Areas I, II, and IV. **Note:** all transfer students must have completed at least **six (6) semester hours of English composition, three (3) semester hours of mathematics, three (3) semester hours of history, six (6) semester hours of humanities, and six (6) semester hours of natural sciences** in order to satisfy College of Arts and Sciences requirements. Students who did not complete these courses at their previous institution will need to do so at the University.

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

course work through the 2000 level (2200 or equivalent course) of a classical or modern foreign language. Those with a 2.5 GPA may take these courses on a satisfactory/unsatisfactory (S/U) basis, so long as they meet the University deadline for declaring this intention. A student taking course work to fulfill the college's foreign language requirement must earn at least a "C-." Hours used to fulfill the foreign language requirement may not be counted toward a major or a minor. For exceptions to this policy, students should contact the College of Arts and Sciences. Native speakers of another language and other students who wish to demonstrate proficiency by means other than course work should consult the Department of Modern Languages and Linguistics.

Please note that the college's classical or modern foreign language 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 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.

Beginning Fall 2002, all students who intend to continue study of a modern, foreign language at The 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 Department of Modern Languages and Linguistics. 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 of Modern Languages and Linguistics. Students in other languages must consult the department for the appropriate placement procedures before enrolling.

The Florida State University does not currently offer modern foreign language or classical language instruction at the Panama City campus. Therefore, students pursuing BA or BS degrees in the College of Arts and Sciences at the Panama City campus may count as part of their sixty (60) semester hours of senior institution work a maximum of twelve (12) semester hours of courses taken at Gulf Coast Community College to satisfy the language requirement. These hours will count toward the sixty (60) semester hours only if they are taken subsequent to the students' enrollment as juniors and seniors at the Panama City campus.

Summer Requirement. Students who enter one of the eleven state universities with fewer than sixty (60) semester hours of transfer credit must complete nine (9) semester hours of course work during the summer at any of the eleven institutions of the State of Florida, Division of Colleges and Universities. Requests for waivers of the summer requirement (normally for reasons of regular summer employment) must be approved in the Office of the Dean of Arts and Sciences and by the Dean of the Faculties.

Upper-Level Course Work. Students must complete at least forty (40) semester hours of 3000/4000 level courses to receive their degree. Courses transferred from another school may count toward this requirement if the equivalent Florida State University course was numbered 3000 or above at the time the course was taken.

Senior Institution Hours. At least sixty (60) semester hours of course work must be completed at a senior institution (i.e., not a community college).

Repeated Courses. Credit can only be given one time per course. If, for example, a student receives a "D" grade in a course and then repeats it, even when doing so under the forgiveness policy, the student will not receive duplicate credit. This will most frequently affect a student's total hours and/or upper-level hours.

Physical Activity and Other Activity Courses. The University will allow a **maximum** of two (2) semester hours of physical activity courses to count toward a degree (e.g., tennis, sailing). Students who attended a community college and received an AA may have already taken two (2) or more semester hours in this area. The University will not take away any hours from an AA; however, any additional courses taken in this area after the AA may not count toward the total hours needed to graduate from The Florida State University. No more than eight (8) semester hours can be taken in applied music, physical activity, or office skills courses, combined.

Minor. Most majors in the College of Arts and Sciences also require a completed minor. Exceptions include Latin American and Caribbean studies/business, secondary science/math teaching, humanities, foreign language/business, English/business majors, and certain science programs with collateral minors. Students completing a double major do not have to complete a minor. Students pursuing two degrees (dual certificate 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 (12) semester hours, others require as many as eighteen (18) semester hours. No courses used for satisfying liberal studies requirements or a major may also be counted toward the minor. Normally, the student's minor will 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 their departments.

Grade Point Average. The University requires students to have a GPA of at least 2.0 in order to receive a bachelor's degree. Certain programs have established required exit GPAs that are above the 2.0 level; please consult the individual departmental listings.

Residency. A student's final thirty (30) semester hours must be completed in residence at The Florida State University. Petitions for waivers of this requirement must document unusual circumstances and be submitted through the Office of

the Dean of Arts and Sciences prior to a review by the Dean of the Faculties. Students taking courses at another senior institution or by correspondence must request that a final official copy of their grades immediately be sent to the University. These grades must be added to the University transcript before the degree can be posted.

Incomplete Grades. “I” grades completed after the degree is posted will not be recorded. The “I” will simply remain an “I.”

CLAST. Unless students are exempt, they must show passing scores on all sections of the College Level Academic Skills Test. For exceptions, students should contact the College of Arts and Sciences Office of the Dean.

Course Load. In order to graduate in four years, students should take an average of fifteen (15) semester hours each fall and spring semester—unless they are affected by the nine (9) semester hour summer attendance policy. In this case, they can take fourteen (14) semester hours each fall and spring and nine (9) semester hours over one or more summer terms and still graduate in four calendar years.

Community College Course Work. Please note that students cannot earn transfer credit for community college courses after they have been awarded an AA degree from a community college. Also, even if students have not already earned the AA, they still may not earn transfer credit for any community college courses taken during their final thirty (30) semester hours at The Florida State University. See the “Foreign Language” section above for exceptions to this policy for students at the Panama City campus.

Requirements for the Major. Each candidate for the baccalaureate degree must complete major requirements in one of the following departmental or interdepartmental fields. The major normally consists of eighteen to thirty-six (18–36) semester hours depending on the department in question. See departmental entries for specific requirements.

If courses from the major department are used to meet the liberal studies requirements, no more than four (4) semester hours of these Liberal Studies courses may also be counted toward the major requirements.

Exit Interviews or Surveys. Each department in the College of Arts and Sciences is required to conduct appropriate exit interviews or surveys of graduating students. In some departments, eligibility for graduation may be based on completion of the exit interview or survey.

Departmental Majors

Humanities Area

Classics
English
French
German
Greek
History
Italian

Natural Sciences Area

Anthropology
Biochemistry
Biological Science
Chemical Science
Chemistry
Computer Science
Geological Sciences

Latin
Philosophy
Religion
Russian
Spanish

Mathematics
Meteorology
Physics
Psychology
Statistics

Interdepartmental Majors

Actuarial science
American and Florida studies
English with an emphasis in business
German studies
Humanities
Latin American and Caribbean studies
Latin American and Caribbean studies with an emphasis in business
Interdisciplinary program in physics
Modern language with an emphasis in business
Classics and religion
Secondary science and/or mathematics teaching
Women’s studies

Definition of Prefixes

ISC — Interdisciplinary Natural Science
PSC — Physical Science
SCE — Science Education

Interdisciplinary Science Courses

The following interdisciplinary courses are taught by science faculty from the College of Arts and Sciences. These courses may be taken as undergraduate elective credit. Some departments also include these courses among elective hours within the major.

ISC 2003. Global Change, Its Scientific and Human Dimensions (3). Prerequisites: Two years high school science, two years high school math. Global environmental change, scientific and human dimensions, and international public policy implications.

ISC 3076. Science, Technology, and Society (3). Prerequisite: Junior standing or instructor permission. The role played by science and technology in American society is considered by examining the organization of the scientific enterprise, the realities of scientific life vs. portrayals of scientists in the media, how science is funded, its economic and its intellectual significance, dilemmas posed by progress in science and technology, and societal conditions under which science flourishes. This course cannot be used as credit toward a major or minor in a science department.

PSC 2800C. Earth Science for EC/EE Teachers (4). This course is designed for prospective elementary and early childhood education majors. The course integrates geology, oceanography, and meteorology with the laboratory integral to the course. Students will work in groups in a hands-on, minds-on approach to learning earth science.

PSC 2801C. Physical Science for EC/EE Teachers (4). This course is designed for prospective elementary and early childhood education majors. The course integrates physics and chemistry with the laboratory integral to the course. Students will 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). Presentation on current or otherwise interesting issues in science, mathematics, or teaching methods. Content of course will vary from semester to semester. May be repeated to a maximum of four (4) semester hours.

Teacher Education Requirements

The College of Arts and Sciences secondary science and/or mathematics teaching major require students to complete the following for admission into its program: 1) the Liberal Studies requirements summarized in the “Undergraduate Degree Requirements” chapter of this *General Bulletin*; 2) the State of Florida common course prerequisites described in the appropriate department chapter of this *General Bulletin*; and 3) the requirements for the teacher education program described in the “College of Education” chapter of this *General Bulletin*. **Note:** these are State of Florida and university-wide requirements for all students planning to enter a teacher education program. Common prerequisites and total program length for state-approved teacher preparation programs are subject to revision based on changes to Section 1004.04, Florida Statutes, Public Accountability and State Approval for Teacher Preparation Programs and State Board of Education Rule 6A-5.006, Approval of Preservice Teacher Preparation Programs.

The Florida State University is committed to increasing the proportion of teacher candidates who have historically been underrepresented among Florida’s public school teachers. Applicants representing such groups will be considered for exceptions to the general admissions criteria.

Requirements for the Second Baccalaureate Degree or Dual Certificate

A student completing a second bachelor’s degree in the College of Arts and Sciences must complete at least thirty (30) semester hours at The 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), the Arts and Sciences Liberal Studies requirements, and demonstrate satisfaction of the College of Arts and Sciences foreign language requirement.

Note: to distinguish between second baccalaureates and second majors, see the appropriate paragraph under “Undergraduate Degree Requirements” in this *General Bulletin*.

Honors Program

The College of Arts and Sciences offers honors in the major in all departmental and interdepartmental programs. For requirements and other information, see the “University Honors Program and Honor Societies” chapter of this *General Bulletin*.

COLLEGE OF BUSINESS

Dean: Melvin T. Stith; *Associate Deans:* Joe D. Icerman, E. Joe Nosari, Pamela L. Perrewé

The College of Business is one of a select group of business programs in the country fully accredited by AACSB-International. This accreditation includes all undergraduate and graduate programs in business and separate accreditation of the programs in accounting.

Since its founding in 1950, the College of Business has provided quality business education to over 30,000 alumni who have gone on to positions in regional and national 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.

The mission of the College of Business is to provide high quality undergraduate and graduate instruction, high quality applied, empirical, and theoretical research, and significant quality service to stakeholders, our profession, and the world community. This commitment to quality is reflected in three essential areas: a talented and dedicated faculty; an outstanding student body; and a close relationship with the business community.

Over the years the College of Business has been successful in building a very capable and motivated business faculty. Faculty members throughout the several business disciplines 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. Business students have strong analytical and communicative aptitudes and have a spirit of enterprise and creativity. The interaction of these students with highly qualified business faculty, coupled with well-designed business 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 offers curricula leading to the degrees of bachelor of science (BS), bachelor of arts (BA), master of business administration (MBA), master of accounting (MAcc), master of science in management (MS), and doctor of philosophy (PhD) in business administration. The College of Law and the College of Business offer a joint-degree program leading to the juris doctor (JD) and the master of business administration (MBA) degrees.

At the undergraduate level, students may major in either accounting, entrepreneurship and small business management, finance, hospitality administration, human resource management, management, management information systems, marketing, multinational business operations, professional golf management, real estate, or risk management and insurance. Students may also pursue a double major by satisfying the requirements of each curriculum.

The master of business administration (MBA) program is a twelve month program designed for students who have an undergraduate business degree (or who have completed a specific set of prerequisite business courses). 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 program begins once each year in the spring term. Students are encouraged to have at least two years of work experience prior to entering the MBA program.

The master of accounting program is designed to allow the student to concentrate 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.

The master of science in management program with a major in management information systems 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 master of science in management program with a major in risk management/insurance 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 master of science in management program with a major in hospitality and tourism is a part-time program designed for professionals in the hospitality industry. Its curriculum is a unique mix of management-oriented classes combined with advanced study in hospitality administration.

The objective of the doctoral program in business is to prepare students for careers in university teaching and research, as well as for selected administrative and research positions in industry and government. Students receive the doctor of philosophy in business administration and concentrate in either accounting, finance, management information systems, organizational behavior and theory, strategic management, marketing, or risk management and insurance.

Institutes and Centers

The **Jim Moran Institute for Global Entrepreneurship** provides services to small businesses throughout Florida. It also provides students with opportunities to consult with and learn from successful entrepreneurs. 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 **Institute for Business Research and Service** provides a broad mix of basic and applied research, workshops, conferences and publications to industry and government. Its activities are implemented through a number of centers in the following areas: human resource management; marketing; banking; information systems; hospitality administration; insurance; procurement; and real estate.

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 **Business Placement Center** assists students in their employment search with services ranging from resume preparation to on-campus interviews with potential employers. The **College of Business Undergraduate Programs Office and Advising Center** provides students a wide variety of advising services.

The Dedman School of Hospitality is located in the South Building of the University Center, 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 satellite 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.

Opportunities

The College of Business programs are designed to provide high-quality business education to its students. This goal is accomplished through the following instructional objectives:

1. The curriculum instills in students a sense of ethical values and an appreciation of their responsibility for contributing to the continuing advancement of our culture and for dealing with emerging societal problems;

2. The curriculum provides a thorough understanding of the methods of analysis used in identifying and solving the more difficult intellectual problems met by professionals and/or managers who are involved in policy-making;

3. The curriculum develops within students a spirit of enterprise based on imaginative and creative ability so that they will be willing to venture into new business and organizational activities and to initiate new concepts of management;

4. The curriculum increases students' abilities to communicate ideas clearly and to appraise critically both written and spoken discourse and offers opportunities for in-depth study in the areas of the behavioral, quantitative, and information sciences.

Using these objectives as its guide, the College of Business has created an active, stimulating learning environment for both students and faculty. As part of this environment, students participate in independent study, research, laboratory experimentation, field experience, discourse, and scholarly writing.

Scholarships/Awards

Faculty

The College of Business possesses several eminent scholar chairs and numerous professorships. These prestigious faculty positions are occupied by outstanding scholars in various disciplines of business. These faculty 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. 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 several types of scholarships and financial aid 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 doctoral students and master's 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 these limited access programs. All majors in the College of Business have the admission requirements listed below.

Students should complete the prerequisite courses required for admission during their first three to four semesters of college work. Students attending Florida community colleges should complete the prerequisite courses required for admission while fulfilling general education requirements leading to the associate in arts (AA) degree. Electives taken in the first two years, after fulfilling general education requirements and the prerequisite courses for business, should be in areas such as English, communications, social sciences, humanities, and analytical reasoning.

Admission Requirements

Admission to the limited access programs in the College of Business is based on availability of faculty and space by discipline. 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.

In order to be eligible for admission to one of the limited access programs in the College of Business, the student must complete the following requirements:

1. Must have completed at least fifty-two (52) acceptable semester hours;
2. Must have compiled the required GPA (based on all attempted course work at the college level) that is in effect for the term in which application is made; and
3. Must have completed all the State of Florida Common Course Prerequisites for Business Programs listed below except for ACG X071. All business students, except accounting majors, must complete ACG X071 prior to graduation, but not necessarily prior to admission to one of the limited access programs. Accounting majors at The Florida State University are not required to complete ACG X071 and may only take MAC X233.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071 (not required of students majoring in accounting at The Florida State University);
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Course Requirements

All undergraduate business 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 business; 3) the general business core requirements; 4) the general business breadth requirements; and 5) the major area requirements for their chosen major.

General Business Core Requirements

All business students (except accounting majors, see note below) must complete the following five 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

*Not required of accounting majors; accounting majors must complete BUL 3330 with a grade of "C-" or better as part of their major area requirements.

General Business Breadth Requirements

All business students must complete five (5) of the following courses. The specific courses that must be completed to meet general business breadth requirements vary by major. Please refer to the appropriate departmental chapters of this

General Bulletin to aid in selecting specific courses to meet these requirements for each major. 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 major area requirements.

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
ISM	3011	Introduction to Management Information Systems (3).*
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
QMB	3200	Quantitative Methods for Business Decisions (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

* May not be taken by management information systems majors.

Major Area Requirements

Students must meet the major area requirements for their chosen major. These requirements are described in the appropriate departmental chapter of this *General Bulletin*. Students may major in:

Accounting

Entrepreneurship and Small Business Management

Finance

Hospitality Administration

General Management (see Department of Management)

Human Resource Management (see Department of Management)

Management Information Systems

Multinational Business Operations

Marketing

Professional Golf Management (see Dedman School of Hospitality)

Real Estate (see Department of Risk Management/Insurance and Real Estate)

Risk Management and Insurance

Academic Policies

1. Students are required to meet College of Business 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 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.

2. Changes to this *General Bulletin* that have been formally approved prior to Fall 2003, but not in sufficient time to meet publication deadlines, will be effective Fall 2003. Students can receive information on these changes in the undergraduate programs office of the College of Business;

3. All students must complete an official pregraduation check in the undergraduate programs office of the College of Business during the first three weeks of the semester prior to the semester in which they plan to graduate;

4. All students must apply for graduation at the Office of the University Registrar during the first two weeks of the semester in which they plan to graduate;

5. A minimum of thirty (30) semester hours of the general business and major area requirements must be taken at The Florida State University.

6. 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 Dean of the College of Business. In evaluating this transfer credit, emphasis will be given to courses taken at other AACSB-International accredited business programs;

7. Students are not allowed duplicate credit hours for courses repeated in which they have made a “D” or better;

8. The only College of Business courses offered on a satisfactory/unsatisfactory (S/U) basis are ACG 3949; GEB 1030; HFT 3949r, 4941; MAN 3949r; MAN 4941; and MAR 4941;

Requirements for a Minor in Business

Students majoring in areas outside the College of Business may receive a minor in general business. The general business minor consists of eighteen (18) semester hours, including ECO 2013 and 2023, and any four (4) business courses. At least two (2) of the four business courses must be completed at The Florida State University. Any business course taken at another institution must be approved by the College of Business before it will be counted toward a business minor. A grade of “C–” or better must be earned in each course in the minor.



COLLEGE OF COMMUNICATION

Dean: John K. Mayo; *Associate Deans:* Gary R. Heald (Academic Affairs), Jennifer N. Buchanan (Student Affairs)

American society is enmeshed in an all-encompassing and ever-expanding web of human and technological channels of communication. People encounter the changing terminology and technology of communication on a daily basis. The definition of this complex and ever-changing world of communication, the explanation of its assorted functions, and the understanding of its multitude of effects underlie the teaching, research, and service missions of the College of Communication at The Florida State University.

The roles of the College of Communication are: 1) to study the human communication process in all its ramifications through basic and applied research; 2) to transmit the knowledge thus acquired through undergraduate and graduate teaching; and 3) to serve the University, the state, the nation, and the world by applying its expertise to the solutions of human and institutional communication problems.

The college offers a unique and integrated series of communication degree programs at the undergraduate level. The curriculum covers the whole of human communication (both normal and disordered), speech and interpersonal communication, group and organizational communication, as well as mass-mediated and interactive, computer-based communication.

The College of Communication offers both academically and professionally-oriented courses of study. Each curricular sequence integrates knowledge about human communication from a variety of perspectives: physical; biological; social science; humanities and the arts; as well as business, government, and other related professional orientations.

The interests, perspectives, and activities of the College of Communication are extensive. Faculty members from the college serve as officers in professional and academic societies and associations. A series of journal publications, books, convention papers, and monographs have established a number of faculty as leaders in their respective fields.

Undergraduate Degree Programs

Programs of study leading to the bachelor of arts (BA) and bachelor of science (BS) degrees are offered through the Department of Communication Disorders and the Department of Communication. Each major within the college 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. See department entries in this *General Bulletin* and the college website, <http://www.comm.fsu.edu>, for specific information regarding departmental application requirements. 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 departments identified above. (See departmental entries for specific area concentrations and requirements.) To be awarded the BA degree, the student must complete the special university-wide requirements for that degree.

Requirements for the Second Baccalaureate Degree (Dual Certificate)

A student completing a second bachelor's degree in the College of Communication must complete at least thirty (30) semester hours at The 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

Both communication and communication disorders 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 Program and Honor Societies" chapter of this *General Bulletin*.

Dean's List

Students who in any term carry a full-time course load of twelve (12) 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.

Graduate Degree Programs

Students making application for admission to one of the departmental graduate programs must also apply through the University Office of Admissions (<http://admissions.fsu.edu>).

Communication Disorders

Programs of study leading to the master of science, master of arts, advanced masters, and doctor of philosophy degrees are available in the Department of Communication Disorders (see the departmental entry in the *Graduate Bulletin* and the college website, <http://www.comm.fsu.edu>, for complete descriptions).

Communication

The graduate programs in communication offer several specialized majors leading to the master of arts, master of science, and doctor of philosophy degrees (see the departmental entry in the *Graduate Bulletin* and the college website, <http://www.comm.fsu.edu>, for complete descriptions).

Research and Service Facilities

The College of Communication offers students enriched learning experiences through a variety of teaching, research, and/or service laboratories.

The **Florida Government Performance Survey Research Center** helps Florida government agencies determine how well they are meeting the needs of their customers. It also offers strategies to improve communication and organizational performance of state and local governments. It conducts public opinion polls, work climate and other employee surveys, and web-based surveys, as well as media audience studies, readership surveys, message testing, focus groups, performance evaluation and communication audits.

The communication science laboratories provide facilities for the study of physical and psychological aspects of sound, speech, voice, and language. The **Speech Science Laboratory** has specialized equipment enabling analyses of duration, intensity, spectral, and fundamental frequency aspects of speech. Instrumentation and procedures for the forensic study of speech enable the detection of signals of noise and speaker identification from recorded speech samples. The **Voice Science Laboratory** includes computer-interfaced instrumentation for measuring vocal intensity and pitch, aeromechanical aspects of voice and resonance, and physiological functioning of respiration and the vocal apparatus. The **Hearing Science Laboratory** utilizes computerized instrumentation for basic research on loudness, pitch, binaural hearing, and the temporal aspects of hearing, as well as for the study of hearing sensitivity using a variety of auditory stimuli. The facility includes two sound-attenuated suites and an electronics shop. The **Emerging Language Laboratory** includes equipment for recording, editing, and analyzing audio and video samples of speech and language discourse and social in-

teractions. On-site recording facilities accommodate small groups of children and children with their parents. Portable equipment is available for field recordings. Software programs for analyzing language samples and summarizing results are available. The **Adult Language Laboratory** provides facilities for the study of social and communication problems associated with acquired brain injury and illness in adults. These facilities are equipped with evaluation instruments and materials, audio/video equipment, and computers to facilitate data analysis.

The **Speech and Swallowing Laboratory** includes instrumentation to study the physiology/kinesiology of the speech/swallowing mechanism. Measurement techniques include surface electromyography, acoustic measures, and measures of strength and endurance. Work in this laboratory is designed to develop or refine techniques for the evaluation and treatment of individuals with speech and swallowing impairments.

The **Augmentative and Alternative Communication Laboratory** provides student clinicians with opportunities to learn about the evaluation and treatment of children and adults with severe communication disorders. The facility includes dedicated electronic communication devices with voice output, switches, keyboards, software programs, and other computer-based systems.

The Florida State **Center for Autism and Related Disabilities (CARD)** was established in 1993 and is one of six similar centers in the state. Over 900 individuals with autism or related disabilities have been identified in the 18 Florida panhandle counties served by The Florida State Center. The center provides services to eligible individuals for communication, social, and behavior problems, and provides information, consultation, and technical assistance to families and professionals. The center also trains professionals and pre-professionals who serve, or are preparing to serve, the client population.

Teaching Facilities

The **Production Center** is a state-of-the-art media production complex that supports the video and audio production activities of the Department of Communication. The Production Center houses a variety of equipment and facilities: a fully equipped television studio; video-editing suites in several formats; field production cameras and recorders in each of those formats; computerized on and off-line editing, digital video effects, and computer animation capabilities; non-linear editing; and on-site engineering and management support. The facility was designed around the principle that students need maximum exposure to the equipment to develop the competency required in media production fields.

The communication program has two lab facilities that are used for instruction and for the production of multimedia products. The mission of the program is to provide training and real-world experience to students in the Department of Communication. In fulfillment of this mission, the graduate program actively seeks partnerships with

corporations, government agencies and other organizations interested in developing products and services that use technology in innovative ways to meet specific information, communication and educational needs. The graduate curriculum provides instruction in the integration of new communication technologies, e-commerce, social, organizational and educational arenas. Building on a solid base of research in communication and interactivity, students learn how to analyze problems and present practical solutions. To this end, the program pursues projects linking people through technology and assisting students with design projects in various areas, including website, CD-ROM and groupware development. Expertise in these areas will be among the most important skills of new communication professionals.

WVFS-FM (V-89) is The Florida State University's student-operated college radio station. Communication students work at V-89 for college credit and are responsible for programming, announcing, news and sports coverage, and all other station operations. V-89 is "the Voice of Florida State," providing campus information and alternative music programming. V-89 has been the recipient of several national programming awards, and is now available on the World Wide Web through streaming video at: <http://www.vfs.fsu.edu>.

Seminole Productions is the Department of Communication's video production unit. Seminole Productions provides a variety of services to other campus departments. One major client is the athletic department. Seminole Productions also produces the weekly University sports highlight show, *Seminole Uprising*, which reaches

over two million households in Florida via the Sunshine Network. Students have numerous opportunities to become involved with Seminole Productions.

The **L. L. Schendel Speech and Hearing Clinic** is the primary teaching laboratory for students enrolled in the communication disorders master's degree programs. This 40-room facility is the central focus of learning and service activity. Videotape laboratories, diagnostic audiology instrumentation, sound isolation rooms, electronic communication devices, and a complement of other clinical resources serve the program's needs for clinical management and instruction.

The College of Communication maintains seven fully-equipped computer laboratories. While some labs serve specific program areas, others are available for general instruction and research. The labs are equipped with a full complement of personal computers and laser printers, all of which are connected to the college's network. Connectivity to the network allows faculty and students to share data and collaborate on projects.

The labs' personal computers include a full array of commercial software for word processing, spreadsheet development, database management and academic applications for statistical and content analysis. Some of the labs serving the Department of Communication include hardware and software for fully integrated desktop publishing and video applications. The Department of Communication Disorders offers labs equipped with hardware and software for language sample analysis, instructional material development and desktop publishing. Certain labs also include hardware and software for nonlinear video editing.



SCHOOL OF CRIMINOLOGY AND CRIMINAL JUSTICE

Dean: Daniel Maier-Katkin; *Associate Dean:* Thomas Blomberg; *Director of Internship, Criminology, and Criminal Justice:* Laura Bedard

The Florida State University has one of the oldest criminology programs in the world. Starting as a nondegree concentration in the School of Social Welfare in 1953, the program rapidly expanded and became the Department of Criminology and Corrections in the School of Social Welfare in 1956. The bachelor's degree program, master's program, and a joint doctoral program with sociology were established in 1956. An independent doctoral program in criminology was authorized by the Board of Regents in 1971. This doctoral program was the first PhD program in criminology established in the United States. In 1973 the department became the School of Criminology. In 1991 the school was renamed the School of Criminology and Criminal Justice. The School of Criminology and Criminal Justice is located in the Hecht House.

At The 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 sociology, psychology, political science, economics, anthropology, geography, public administration, urban studies, demography, history, philosophy, biology, social work, and law.

The criminology and criminal justice program focuses 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 program prepares individuals for a career in the criminal justice system, or some related field, or for additional study at the graduate level in criminology or law.

The School 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 the doctor of philosophy (PhD) degrees. A distance learning master's of science degree program is available for professionals with at least two (2) years of experience. In addition to general criminology degree programs, a dual master's degree program is offered with the School of Public Administration and Policy. For undergraduates, certificates are available in corrections, law enforcement, and security administration. Evening programs are offered for undergraduate and graduate students.

Students majoring in criminology and criminal justice have an important opportunity for hands-on experience that is afforded by the school's internship program. The Florida State University's location in Tallahassee affords direct access to extensive research and employment opportunities. Tallahassee is home to various state and federal courts as well as several state correctional facilities, drug treatment facilities, a federal prison, and a variety of private sector opportunities. The legislature, governor, cabinet, attorney general, and Department of Corrections, Probation/Parole, and Law Enforcement are located in Tallahassee. Study at the School of Criminology and Criminal Justice provides access to criminological facilities that match or exceed any in the nation.

Requirements

Admission for a Major

Students are eligible to major in criminology and criminal justice after completing a program of liberal studies with an overall grade point average (GPA) of 2.0 or above. Enrollment as a major in criminology and criminal justice requires no specific lower-division courses as prerequisites.

All students of The Florida State University must fulfill the Liberal Studies Program requirements set forth in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. Successful completion of CLAST is also necessary. Transfer students who have earned an associate in arts degree from a Florida public community college or state university will be considered to have met the liberal studies requirement.

Major Requirements

To major in criminology and criminal justice, a student must complete forty-five (45) semester hours in criminology, including five (5) core courses. An optional one-semester full-time internship (CCJ 4940) is available to fulfill fifteen (15) semester hours of the required course work. A minor is not required by the School of Criminology and Criminal Justice for completion of the major.

For students transferring from another four year university, at least twenty-seven (27) semester hours must involve courses taken within the School of Criminology and Criminal Justice; the University requires the last thirty (30) semester hours prior to graduation be taken at The Florida State University. In addition, all regular University requirements must be met for both the bachelor of arts (BA) and the bachelor of science (BS) degrees.

Core Courses

The core courses are Criminology (CCJ 3011), Law Enforcement (CJE 3110), Courts (CJL 3510), Corrections (CJC 3010), and Introduction to Research Methods in Criminology (CCJ 4700). The core courses are expected to be taken at The Florida State University. A minimum grade of "C" (2.0) must be obtained in each core course.

Internships

A variety of internships are available at the local, state, and federal levels in 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 3011, 4700; CJC 3010; CJE 3110; CJL 3510) and have satisfied the CLAST requirement. 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 usually responsible for all living and transportation expenses during the field experiences.

Minor Requirements

A minor in criminology and criminal justice may be obtained upon completion of four (4) classes. Introduction to Criminal Justice (CCJ 2020) and nine (9) additional semester hours in criminology and criminal justice are required for a total of twelve (12) hours. CCJ 2020 (CCJ 1020) may be taken at the community college level prior to admittance to The Florida State University. Students cannot take CCJ 4905r, Directed Individual Study, or CCJ 4938r, Special Topics in Criminology, to fulfill the minor. Grades of "C-" or better are required for all coursework in the minor.

Certificates

The School of Criminology and Criminal Justice offers three certificate programs: corrections, law enforcement, and security administration.

Honors in the Major

The School of Criminology and Criminal Justice encourages its honors students to participate in the honors in the major program. For requirements

and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Special Programs

Juvenile Justice Role Model Development Program (JJRMDP)

The Juvenile Justice Role Model Development Program was established to meet a critical shortage of trained professionals for programs that provide young people with strong, positive role models in their communities. The Role Model Program is committed to the belief that the best time to intervene in the cycle of delinquency is with our youth. The Program's missions are to provide a pool of professionals in the area of juvenile justice who are uniquely trained, and committed to serving as role models to staff youth prevention, intervention, and redirection programs through the state and the nation.

Utilizing a specialized and innovative curriculum drawn from the disciplines of criminology, sociology, psychology, education, social work, and the humanities, role model students receive a unique blend of academic work and practical experience as volunteers in the community programs as well as in an internship.

Student Activities

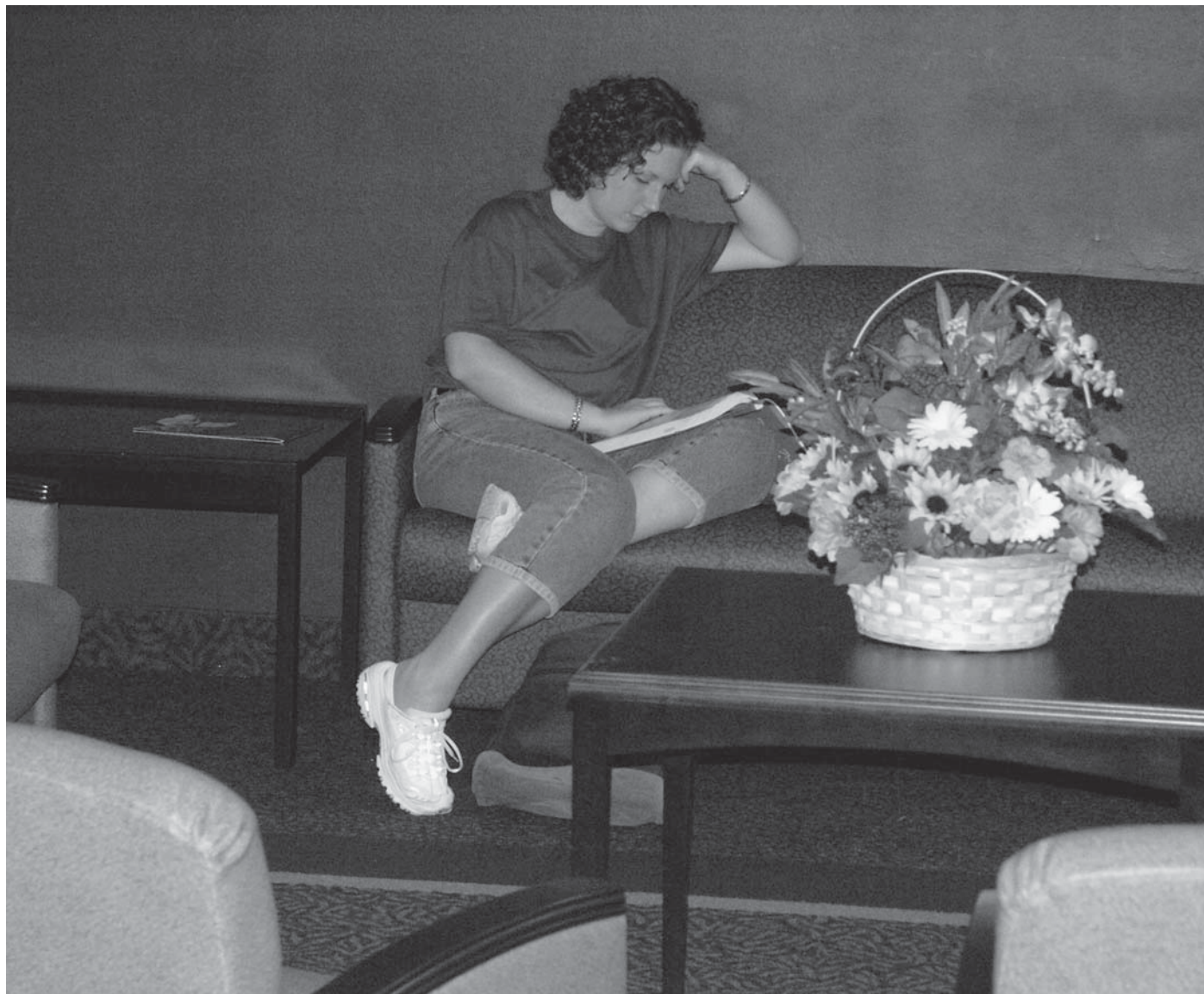
The American Criminal Justice Association-Lambda Alpha Epsilon is devoted to continuing high levels of professionalism in all areas of criminal justice. Any student committed to the field of criminal justice is invited to participate. The chapter holds regular meetings to provide members opportunities to exchange ideas and information about their respective jobs and through the sponsorship of special programs of interest to the general membership. 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. Applications are available in the spring each academic year, in the Mary M. Harris Student Support Services Center in Hecht House. In addition to the application, students must supply an unofficial transcript. A faculty committee appointed by the dean selects the recipients.

Scholarships awarded to undergraduates include **Kelley R. Ivey, Ernest Kearns Ponce De Leon, Jerry A. and Carolyn S. Glass, Frank A. and Lynn W. Baker, and Rob Williams** memorial scholarships. In addition, the **Joe Harris Memorial Award** is presented yearly to an outstanding graduate teaching assistant.

Small loans are available to undergraduates from the **Vernon Fox Student Loan Fund** and the **Tompkins Student Loan Fund**. Further information on loans, grants, work-study opportunities, and scholarships are available from the school or from the University's Office of Financial Aid.



COLLEGE OF EDUCATION

The Florida State University's College of Education's conceptual framework is based on a model that engages faculty, professional partners and candidates in a continuing process of Preparing Educational Leaders for our global and diverse society. The Florida State University prepares educational leaders who uphold high professional and academic standards, and employ scientific inquiry and assessment as a basis for the continual improvement of student learning. They address the needs and abilities of diverse students through the use of appropriate instructional strategies and technology. These qualities are developed as candidates study and work within a community of professional partners.

Dean: Richard C. Kunkel; *Executive Associate Dean:* Steve Rollin; *Associate Deans:* Carolyn Herrington, Lee Jones

The primary purpose of the College of Education is to prepare teachers and a variety of human services practitioners for a wide range of educational careers. The faculty of the College of Education provides the experiences that enable students to acquire professional competencies required in each field.

The college believes that all of its students should acquire a solid grounding in the liberal arts and an understanding of human learning and behavior and social action. The responsibility for meeting these academic goals is shared by the college and by other colleges, schools, and departments in the University.

The College of Education offers undergraduate and graduate degree programs in 27 fields of study. The programs prepare students for positions primarily in elementary and secondary schools, colleges and universities, vocational centers, and organizations that provide counseling services, recreational services, athletic training, and instructional design.

Programs of study leading to the bachelor of arts or bachelor of science degree include early childhood education, elementary education, English education, health education, recreational and leisure services administration, mathematics education, multilingual multicultural education, physical education, rehabilitation services, science education, social science education, and special education.

Departments, Majors and Teacher Preparation Programs of the College of Education

Department of Educational Leadership and Policy Studies

Adult education*
 Comprehensive vocational education*
 Educational administration/leadership*
 Foundations of education*
 History and philosophy of education*
 International/intercultural development education*
 Social science and education*
 Higher education*
 Higher education*
 Institutional research*
 Certificate in college teaching*
 Certificate in educational policy*
 Certificate in human resource development*

Department of Educational Psychology and Learning Systems

Counseling and human systems*
 School psychology*
 Combined program in counseling psychology and school psychology*
 Educational psychology*
 Learning and cognition*
 Sports psychology*
 Measurement and statistics*
 Research and evaluation methods*
 Program evaluation*
 Instructional systems*
 Open and distance learning*
 Certificate in program evaluation*
 Certificate in educational technology*

Department of Elementary and Early Childhood Education

Early childhood education +
 Elementary education +
 Reading education*

Department of Middle and Secondary Education

English education (middle and secondary English)
 Health education (school health and community health)
 Mathematics education (middle and secondary mathematics)
 Multilingual/multicultural education (French, German, Latin, and Spanish)
 Science education (biology, chemistry, earth-space science, middle grades science, and physics)
 Social science education
 Certificate in teaching English to speakers of other languages*

Department of Special Education

Emotional disturbance/learning disabilities +
 Mental Disabilities +
 Rehabilitation services
 Special education*
 Visual disabilities +
 Certificate in early childhood/special education*

Department of Sport Management, Recreation Management and Physical Education

Physical education
 Sports management
 Sports administration*
 Recreation and leisure services administration +

Admission Standards for University Teacher Education Programs

All teacher education programs at The Florida State University are governed by State of Florida Board of Education Rules and the National Council for Accreditation of Teacher Education standards. These rules require that all students must meet specific criteria to be admitted into a teacher education program. See "Planning Guide to Teacher Education Programs" later in this chapter.

In addition, early childhood education, emotional disturbances/learning disabilities, elementary education, education of the mental disabilities, and visual disabilities are *limited enrollment* programs with capped enrollments. Students who satisfy the minimum requirements listed in this *General*

* graduate only
 + limited enrollment

Bulletin are not guaranteed admission to these programs. The programs will accept the most qualified students.

Many departments 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.

The College of Education is committed to increasing the proportion of teacher candidates who have historically been underrepresented among Florida's public school teachers. Applicants representing such groups will be considered as exceptions to the general admissions criteria.

Planning Guide to Teacher Education Programs

Florida Statute 1004.04 and State Board of Education Rule 6A-5.066

The Florida State University teacher education programs have been designed to address the importance of democratic values and institutions, the contributions of various ethnic groups to society and to stress character development, which encourages appreciation of diversity in a pluralistic society. Students planning to complete one of the following undergraduate teacher education programs at The Florida State University must meet all the conditions listed below to be eligible to have a bachelor's degree conferred.

Undergraduate Teacher Education Programs at The Florida State University

Art education (School of Visual Arts and Dance)

College of Education (see listing earlier in this chapter of the *General Bulletin*)

Family and consumer sciences education (College of Human Sciences)

Interdisciplinary secondary science and/or mathematics teaching (College of Arts and Sciences)

Music education (School of Music)

Teacher Preparation General Education Requirements

Note: students should consult with an advisor to determine how to simultaneously satisfy The Florida State University liberal studies requirements and the teacher preparation general education core curriculum requirements.

Mathematics:

Nine (9) semester hours in mathematics to include college algebra or above and geometry;

English:

Nine (9) semester hours in English to include writing, literature, and speech;

History/Social Sciences:

Twelve (12) semester hours in social sciences to include American history and general psychology;

Humanities/Fine Arts:

Six (6) semester hours in humanities to include philosophy and fine arts;

Natural Sciences:

Nine (9) semester hours in science to include earth science, life science, and physical science, with a minimum of one associated laboratory.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for University degree programs. Specific prerequisites are required for admission into the upper division programs and **must** be completed by the student at either a community college or a state university prior to being admitted to these programs. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

The following lists the common prerequisites or their substitutions necessary for admission into upper-division teacher education degree programs:

Education Core Prerequisites

1. EDF 1005
2. EDG 2701
3. EME 2040*

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements. Contact department and/or advisor for details.

Note: courses marked with an asterisk (*) may have at least one acceptable substitute, depending upon department degree program. Contact the department for details.

Department/Program Prerequisites

See department listings in the *General Bulletin* for each department/program's common course prerequisites.

Common prerequisites and total program length 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, and State Board of Education Rule 6A-5.066, Approval of Preservice Teacher Preparation Programs.

Criteria for Admission and Application to a Teacher Education Program

1. Have at least a 2.5 (on a 4.0 scale) grade point average (GPA) for the general education courses of the undergraduate studies; and
2. Have a grade of "C-" or better in each required general education (liberal studies) English and each general education (liberal studies) mathematics course; and
3. Take and achieve a passing score on all sections of the CLAST (**this requirement cannot be waived or met by alternative means**); and
4. Complete an application for admission to a teacher education program in the Office of Academic Services, 108 Stone Building. **This is distinct from admission to a college or school.**
5. Be approved by the appropriate teacher education department in accordance with departmental criteria; and
6. Receive final approval by the Office of Academic Services.

Note: these are minimum standards. Some programs may set higher standards.

Note: there is no longer a required minimum composite score on the ACT or the SAT for admission to teacher education. However, programs with limited enrollment status may require submission of the score, and may use that score in determining which students will be admitted.

Subject Area Specialization/ Professional Education/Clinical Experience Curricula

1. At least thirty (30) semester hours completed in the subject specialization area as determined by the student's program;
2. Professional education coursework to include: a) reading-literacy acquisition for the appropriate certification level; b) integrated classroom management, school safety, professional ethics and educational law; c) human development and learning; and d) assessment to include understanding the content measured by state achievement tests, reading and interpreting data, and using data to improve student achievement;
3. A series of clinical experiences in diverse settings throughout the program that culminates with a full-time student teaching experience of at least 10 weeks duration in an approved setting.

Note: students should consult with a program advisor for specific course requirements.

Program Completion Requirements of a Teacher Education Program

Students must complete the following requirements to graduate from a teacher education program:

1. Maintain an overall GPA of 2.5 or above in all upper-division course work (some programs may require a higher GPA);
2. Demonstrate achievement of standards and completion of specific course work requirements set by the program;
3. Meet all University graduation requirements, including requirements mentioned above under "Planning Guide to Teacher Education Programs";
4. Achieve a passing score on each of the General Knowledge Test, the Professional Skills Test, and the Subject Area Test on the Florida Teacher Certification Exam (FTCE) prior to completion of program requirements;
5. Successfully complete the student teaching experience including the successful demonstration of the Educator Accomplished Practices at the preprofessional level;
6. Receive verification from the appropriate academic program of successful demonstration of the Educator Accomplished Practices at the preprofessional level, which includes the knowledge, skills and dispositions necessary to help all students learn; and
7. Obtain final approval of the appropriate academic program and the Office of Academic Services.

Recommendation for a Teaching Certificate

Upon completion of an approved teacher education program and conferral of a degree from The Florida State University, students are eligible to receive a recommendation for a standard teaching certificate.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Office of Academic Services

Director: Kenneth B. Tellis

The Office of Academic Services provides a wide array of professional and administrative services to students and faculty in the college and throughout the University. The primary responsibilities of this office are the following: 1) to provide centralized academic advisement for undergraduate studies students interested in majoring in educa-

tion and to coordinate advisement services in the other areas of the college and University for students who are interested in pursuing teacher education curricula; 2) to process applications for admission and readmission to the College of Education; 3) to maintain the dean's academic records for all students who are pursuing curricula in education; 4) to monitor student's degree progress; 5) to screen and approve students for admission to teacher certification; 6) to conduct required graduation clearance and approve students for teacher certification; and 7) to provide consultative and administrative services for the students and faculty in the college.

Office of Clinical Partnerships

Director: Charlotte S. Minnick

The Office of Clinical Partnerships is responsible for the assignment of students for student teaching experiences. The director works with teacher education programs in the University and the public schools of Florida in the organization of student-teaching centers and the selection of supervising teachers for student teaching. Faculty members work with supervising teachers and student teachers in planning and carrying out the student-teaching experience. **The Office of Clinical Partnerships is responsible for the final identification and screening of all students who make application for student teaching.**

Students are assigned for the student-teaching experience in those counties listed below **at the rate of at least two representing the same academic program. Academic programs may, at their discretion, establish a minimum group size greater than two and restrict placement to particular counties among those identified.** 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 teachers representing the programs of human sciences, communication disorders, visually impaired, music, and vocational home economics education will also be concentrated in those counties listed but may be placed in additional locations should program certification requirements dictate their use.

Placement Locations

Area I: Gadsden, Jefferson, Leon, Madison, Taylor, and Wakulla counties.

Area II: Bay, Calhoun, Jackson, Liberty, Okaloosa, Walton, and Washington counties.

Area III: Brevard, Orange, Seminole, and Volusia counties.

Area IV: Hillsborough, Manatee, Pasco, Pinellas, Polk, and Sarasota counties.

Area V: Broward, Dade, and Palm Beach counties.

Other areas as determined by the University Director of Teacher Education.

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.

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, drug testing, and background checks may be required for placement in some counties.**

Application to Student Teaching

An application for student teaching must be submitted to the Office of Clinical Partnerships according to the following schedule:

Note: application materials are available **only** online at http://www.coe.fsu.edu/student_teaching/stforms.html.

Third Monday in September for spring semester student teachers;

Second Monday in February for fall semester student teachers;

First Monday in April for summer term student teachers (restricted).

Criteria for Admission to Student Teaching

The following criteria are required for placement to student-teach:

1. Admission to teacher education outlined above under 'Criteria for Admission and Application to a Teacher Education Program';
2. Successful completion of at least one semester of residence at The Florida State University;
3. Successful completion of subject area specialization and professional education coursework outlined above under 'Subject Area Specialization/Professional Education/Clinical Experience Curricula' prior to student teaching;
4. Achieve an overall GPA of 2.5 in all upper-division course work (a higher GPA may be required by some academic programs for particular core courses);
5. Achievement of senior status; and
6. Successful completion of standards, specific clinical experiences set by the program or the University.

Office of Minority Affairs

Director: Bruce Daniels

The Florida State University's College of Education Diversity Commission is designed to assist the college in its efforts to provide access to, recruit, and retain under-represented students, faculty, and staff of racial and ethnic origin. To achieve this mission, the College of Education will provide an inclusive climate that enhances the growth and vitality of the college through an appreciation of and respect for diversity.

The College of Education Office of Minority Affairs takes the lead in assisting the College of Education at The Florida State University in its efforts to become a wholesome environment for under-represented students. The support of educational goals for under-represented students is provided by activities that encompass the academic, social and professional realms of education.

In addition, the Office of Minority Affairs is actively dedicated to recruiting, and more importantly, retaining the students who diversify the ethnicity of the College of Education. In accomplishing this goal, we have considered national and state demographic trends in making the aggressive efforts necessary to address the demands of an ever-changing student population. Working directly with all minority students is the major intention; however, every effort will be made to be responsive to the needs of all students.

One of the great opportunities available through the Office of Minority Affairs includes the annual Graduate Recruitment Day for interested students who are planning to continue their post-secondary education. This event allows prospective students to meet with faculty, staff, and current students in the College of Education. Information concerning degree requirements, financial assistance, housing, campus organizations, and other activities will be provided to make students aware of the important issues of their university. The Foundation for Under-represented Students in Education (FUSE), is a student organization that offers minority students within the college a social arena as well as a provision for peer support.



FAMU—FSU COLLEGE OF ENGINEERING

Dean: Ching-Jen Chen; *Associate Dean:* Samuel Awoniyi; *Director of Student Services:* Sheldon White

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 (BS) degree or an advanced research-oriented graduate program leading to the master of science (MS) or doctor of philosophy (PhD) degrees.

An engineer usually works as a member of a team in solving a problem or designing 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 Goals

The FAMU—FSU College of Engineering was authorized by the 1982 legislature as a joint program between Florida Agricultural and Mechanical University and The Florida State University. The joint nature of the college allows a student to register at either Florida A&M University or The Florida State University and receive a degree in any of the college's programs. A student entering the college applies for admission through one of the two universities and must satisfy the admission and general degree requirements of that university. The degree is granted through the Col-

lege of Engineering by the university where the student is registered 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 adjacent to Innovation Park.

The mission of the college is to provide an innovative academic program of excellence at the graduate and undergraduate levels judged by the highest standards in the field and recognized by national peers; to attract and produce greater numbers of women and minorities 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 (BS) degree, the master of science (MS), and doctor of philosophy (PhD) in chemical, civil, electrical, industrial, and mechanical engineering, a bachelor of science in computer engineering, and a master of science and doctor of philosophy in biomedical engineering. The college also offers interdisciplinary specializations in bioengineering, biomedical, environmental and materials engineering. The BS programs are accredited by the Accreditation Board for Engineering and Technology (ABET).

Facilities

The college occupies over 200,000 ft² of classroom, office and laboratory space in a building complex especially designed for engineering education. It is located off the main campus of each university in an area adjacent to Innovation Park, which also houses the National High Magnetic Field Laboratory (NHMFL), the Center for Advanced Power Systems and other university, public and private organizations engaged in research, development and clean industry operations. The college operates for the common use of all programs a computing facility, a library and reading room, and a machine shop. In addition, each department in the college operates specialized laboratories for teaching and research; please refer to each department's chapter for additional information on these specialized facilities.

Library

The main book and journal collections for engineering are housed in the Dirac Science Library at The Florida State University and in the Coleman Library at Florida A&M University. The college also maintains an engineering library resource and

reading room (also referred to as the engineering reading room or the college library) that functions as a satellite to the two university libraries relative to engineering needs. Collections at the college library include monographs, texts and reference works that directly support instruction and research at the college. Library computer facilities enable extensive electronic literature search throughout the university libraries and other sources. Library services include literature search training sessions for students and faculty. The college library is headed by a full-time librarian who is also a staff member of one of the two university libraries. Other college library personnel include assistants supported by the college.

Computing Facilities

Students at the college have access to a large number and variety of computing resources at the College of Engineering. Due to the unique requirements of engineering computing and the off-campus location of the college, the college is relatively autonomous in providing service to engineering students.

The college has over 2500 computing devices connected to its local network managed by the college's Computing and Multimedia Services (CMS). Over 220 of these machines for general student use are high-end Pentium class workstations supported by a cluster of Sun Enterprise Series servers and RAID storage system. Computer labs connect to the college's gigabit fiber-optic backbone via 100Mbps Ethernet connections. One of the computer labs is open 24 hours a day, 365 days a year; the other two are used as classrooms and are maintained with technical support over 70 hours per week. The college also provides computing facilities in the public areas that are available to students 24 hours a day, 365 days a year. Additionally, both universities provide on-campus facilities that are available to all students. Software includes major general purpose packages as well as special applications oriented toward particular disciplines. The college's research labs contain dozens of machines clustered together to provide enhanced research capabilities as well as SGI boxes to perform complex number crunching for simulations. CMS maintained a 99.999% up-time availability of computing resources.

The college's computing infrastructure uses a gigabit core Layer 3 switch to connect all communications via gigabit fiber optic cables. The college internet connection is a gigabit link connecting through the Florida State University backbone (The Florida State University acts as the internet services provider for the college) allowing for faster access to the Internet2 and NSF's vBNS 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. In addition to local Ethernet network, the college has set up a wireless server infrastructure with access points in the college atriums for students who may want to use their own laptops to connect to the college's computing resources.

The college also provides remote dial-in capability to all student, faculty and staff. The dial-up hardware consists of remote access servers allowing up to 70 concurrent dial-up users. This allows the users to perform research and other activities from remote sites.

The college has state-of-the-art instructional classrooms, each equipped with multimedia equipment. Three classrooms are prepared as computer classrooms. The instructional computer facilities include a LCD projector, overhead projector, a document camera, a VCR, an amplifier and a set of high quality speakers. A teaching console with a 100 Mbps Ethernet connection is placed at the center of the room. A special Florida Engineering Education Delivery System (FEEDS) classroom has two studio cameras and one document camera connected to a desktop PC with a scan converter to display web pages. A two-way live videoconferencing link via dedicated Fractional T-1 to the FSU-Panama City campus provides interactivity to synchronous distance delivery of

classes to those students. The ceiling mounted LCD projector is used for large-scale projection, linked to the PC at the instructor's console.

There is a C-band and KU-band satellite downlink for viewing in multimedia classrooms and in the atrium connectors over the closed-circuit television system. A Real Video G2 server is used to stream live and recorded programs, classes and events from the college. The Poly Com VS4000 provides for 4-point IP videoconferences.

Supporting Facilities

Other nearby resources include the School of Computational Sciences and Information Technology (CSIT), FSU Academic Computing and Network Services (ACNS), the National High Magnetic Field Laboratory (the 'Mag Lab'), the Center for Advanced Power Systems (CAPS), the Challenger Learning Center in downtown Tallahassee that houses a 3-D IMAX theatre, planetarium and a Challenger Space Mission and Control Center, Northwest Regional Data Center (NWRDC), Florida Department of Transportation research facilities, and WFSU Public Broadcasting television and radio stations as well as FAMU Computing Services.

Opportunities

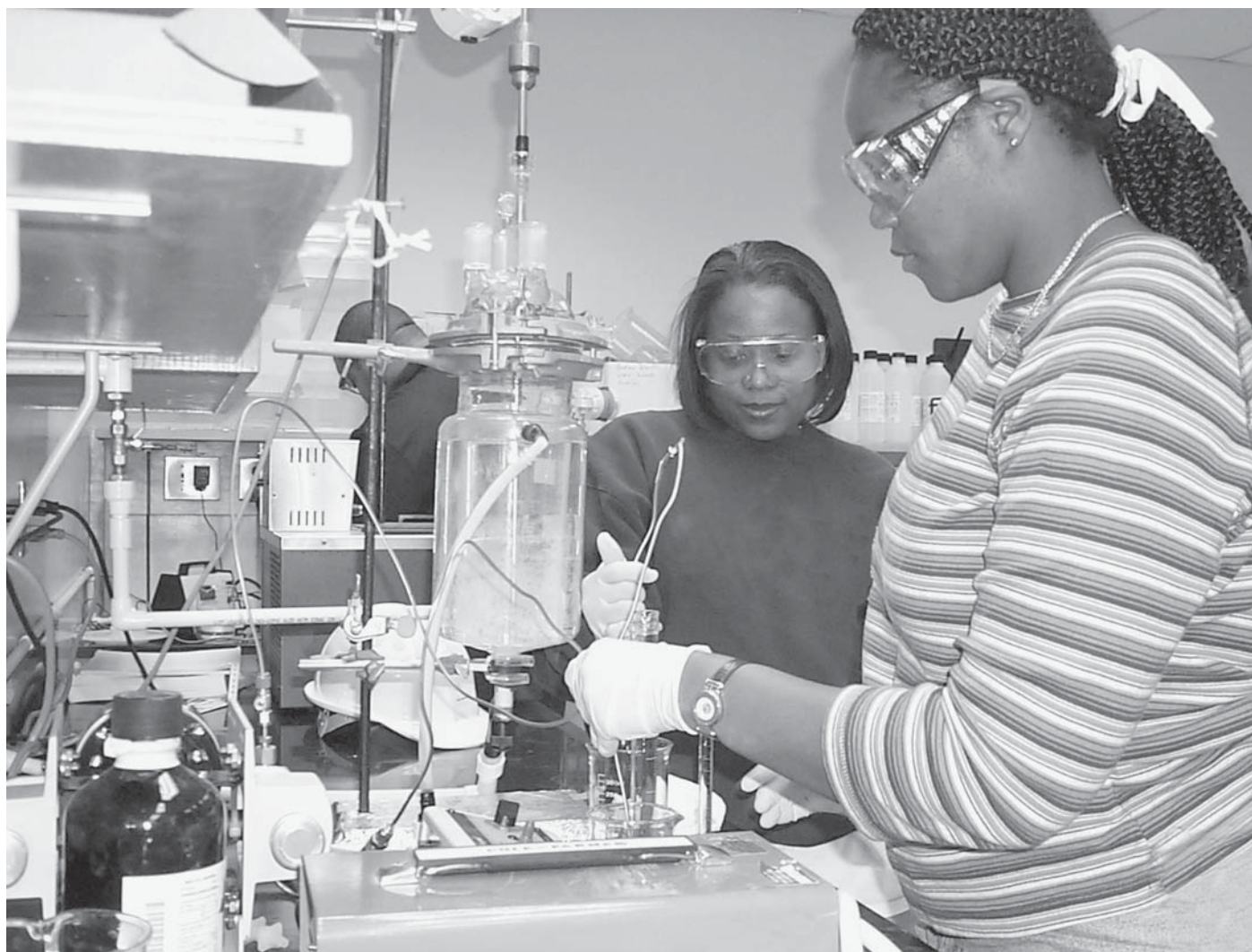
A limited number of scholarships are available for qualified students. The college also has a satellite office of The Florida State University Career Center to assist students in obtaining internships, co-op jobs and permanent employment with employers nationwide.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Prerequisites to Engineering Courses

1. Prior to satisfying requirements 2. and 3. below, all freshmen are regarded by the college as not having declared an engineering major;
2. Students must achieve a GPA of 2.5 or better in calculus I, calculus II, physics I, and chemistry I prior to enrolling in any 2000-level or above engineering course for which any of these courses



are prerequisites. A maximum of one repeat of each course is allowed in meeting this requirement;

3. Students who do not achieve at least a GPA of 2.5 in MAC 2311, Calculus with Analytical Geometry I (4), and EGN 1004L, First Year Engineering Laboratory (1), may be directed to take additional academic work as determined by the college;

4. Any student who fails to earn a grade in the range of "C" or better in an engineering course on the third attempt is subject to dismissal from the engineering program;

5. Any student who exceeds thirty (30) semester hours of repeated course work is subject to dismissal from the engineering program;

6. Engineering majors must earn a grade in the range of "C" or better in all engineering courses and engineering core courses which apply toward the degree. This grade range also is required for satisfying course prerequisites. This requirement may be waived by the academic dean upon recommendation of the department chair for no more than two (2) such courses;

7. Normal policy in the college is to allow two reinstatements. A third reinstatement may be approved in exceptional circumstances. Any student who fails to comply with the agreement approved by the department chair following reinstatement or fails to earn a cumulative GPA of 2.0 or better upon completion of the term is subject to dismissal from the engineering program; and

8. Additional requirements may apply for courses leading to particular BS degree programs in the college. Accordingly, students are encouraged to contact the academic advisor in their major departments for current information about such requirements.

Transfer Students

Students who plan to enroll in another institution for the first two years and then transfer into the college should use great care in selecting freshman and sophomore course work. They should include as many courses as possible from the engineering core. Students are advised to consult with the College of Engineering as early as possible concerning their first two years of study. In general, a transfer student must satisfy the same requirements in engineering and related areas as students who take all their course work at the College of Engineering.

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 (BS) degree in four years and one summer with an average load of sixteen (16) 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 one additional summer session.

The engineering curriculum is made up of four components: liberal studies, engineering core, required courses in the engineering major area and technical electives.

Liberal Studies

All students must meet University requirements for baccalaureate degrees stated in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. Of the thirty-six (36) semester hours required in liberal studies, thirteen (13) of these semester hours are automatically satisfied by the engineering core courses listed herein. Therefore, the student must take a total of twenty-three (23) semester hours in the areas of English, history, humanities, and social sciences. Students unprepared to begin calculus at the university level must, of course, also complete the necessary mathematics course work preparatory to calculus. All prospective engineering students should select humanities and social science courses to meet the above 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 option. 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	1004L	First Year Engineering Laboratory (1)
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	3305	Engineering Mathematics I (3)
PHY	2048C	General Physics A (5)

PHY 2049C General Physics B (5)

*Except for chemical and mechanical engineering majors.

**Except for mechanical engineering majors.

***Except for electrical 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. A current statement of requirements for engineering major areas is available as advising materials in the academic departments.

ABET EC 2000

With regard to ABET EC 2000, the engineering core courses also service some learning tasks and graduate attributes common to all engineering BS programs. However, as each BS program has its own additional course requirements for ABET EC 2000, students are advised to obtain up-to-date information from their major 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; PHY 2048; Corequisite: EEL 3003L. This course is an introduction to electrical engineering concepts for nonelectrical engineering majors. It covers a broad range of topics, including basic circuit theory, semiconductor devices, microprocessors, instrumentation amplifiers, and machines.

EEL 3003L. Introduction to Electrical Engineering Laboratory (1). Prerequisites: MAC 2312; PHY 2048. Corequisite: EEL 3003. Laboratory in support of 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; PHY 2048. Corequisite: MAC 2313. Course topics include statics and dynamics of particles and rigid bodies using vector analysis, free body diagrams, equilibrium of particles and rigid bodies, particle and general rigid body motion, work/energy, impulse and momentum methods.

EGN 1004L. First Year Engineering Laboratory (1). 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). Prerequisite: MAC 2311. 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. An emphasis on 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: MAC 2312; PHY 2049. An introduction to engineering thermodynamics; basic concepts, properties of pure substances, work and heat; first and second laws of thermodynamics, closed and open systems, formulations, engineering applications.

COLLEGE OF HUMAN SCIENCES

Dean: Penny A. Ralston; *Associate Deans:* Bonnie Greenwood; Mary Ann Moore; *Mack and Effie Campbell Tyner Eminent Scholars:* Konrad Bloch (deceased), John Kinsella (deceased), William Ruben, William Jerome Vereen, Richard Lerner, James Banks, Richard Palmiter, Susan Watkins; *Dean Emerita:* Margaret A. Sitton

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 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, master's and doctoral programs in three academic departments: textiles and consumer sciences; family and child sciences; and nutrition, food and exercise sciences.

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 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 is fully accredited by the American Association of Family and Consumer Sciences and by the National Council for Accreditation of Teacher Education (NCATE) through the family and consumer sciences education program. In addition, the college has an American Dietetic Association approved Didactic Program.

The college has three endowed eminent scholar chairs, including the Mack and Effie Campbell Tyner Chair, the Bert Family Chair, and the Lincoln Chiropractic College Chair in Biomechanics. The Family Institute, which is housed in the College of Human Sciences, includes the Center for Family Services, the Center for Marriage and Family Therapy, and the Inter-University Consortium for Child, Family and Community Studies.

Facilities

Special laboratories that enhance and enrich the student's education include: 1) the **Historic Clothing and Textile Laboratory**, which houses the Carter Collection of Peruvian Textiles and the most extensive collection of accessories and children's and women's wear in the Southeast; 2) **Lectra Computer-Aided Design Laboratory**; 3) the **Burdines Merchandising Technology Laboratory**; 4) a resource and technology center which includes the **Allie Ferguson Resource Center** with collections of family and consumer sciences state-adopted textbooks, reference materials, tapes, and microfiche to extend the preparation of family and consumer sciences teachers and extension agents; 5) chemical, analytical, and microbiological laboratories for food and nutrition science majors; 6) off-campus child development observation laboratories; 7) the exercise physiology laboratory for monitoring the effect of exercise on metabolism for nutrition and fitness majors; 8) the motor learning/control laboratory for the study of cognitive processes and neural mechanisms controlling movement; 9) the textile evaluation laboratory; and 10) two computer laboratories, including a state-of-the-art multimedia laboratory.

Opportunities

Undergraduate students may participate in an honors program (see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*) and may pursue a double major consisting of a combination of two degree programs. Internships are an integral part of degree programs in merchandising, housing, and family and consumer sciences education. Students majoring in child development may opt to have an internship if required academic criteria are met. Students in dietetics may intern in selected hospitals upon receiving the bachelor of science degree.

Scholarships/Awards

The college awards monetary scholarships annually. In addition, monetary scholarships are made annually by each department. Some of the awards are based on scholarship, some on need, and some on a combination of both.

Undergraduate Degree Programs in Human Sciences

Department of Textiles and Consumer Sciences

Clothing, Textiles and Merchandising with majors in:

Apparel Design and Technology;
Merchandising;
Housing; and
Textiles

Department of Family and Child Sciences

Family, Child and Consumer Sciences with a major in:

Child Development

Family and Consumer Sciences Education

Department of Nutrition, Food and Exercise Sciences

Foods and Nutrition with majors in:

Dietetics;
Nutrition and Fitness; and
Nutrition and Food Science

General Human Sciences with major in:

Athletic Training/Sports Medicine; and
Exercise Science

Interdepartmental Programs

General Human Sciences

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, HOE 3050, and a minimum of three (3) semester hours outside their own major in one of the three 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

(9) semester hours of credit toward the degree from courses in office skills and in applied music and music activities. Also, students may receive up to two (2) 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.

Although all students are registered in undergraduate studies for the first two years, students who expect to major in the College of Human Sciences should follow the curriculum outlined for their major during this time. This is to ensure readiness for advanced courses when students transfer to the College of Human Sciences.

To transfer from undergraduate studies into one of the departments in the College of Human Sciences, the student must have an academic average of "C" or better and a passing score on the CLAST exam.

The University's requirements for liberal studies allow some selection of courses. These should be chosen in consultation with the academic adviser in the College of Human Sciences in order that the requirements of the major curriculum may be met.

General Human Sciences

This program provides a core of human sciences courses important in the undergraduate education of the student while allowing a wide choice of electives. Curriculum is planned with the academic adviser to provide special emphasis.

Definition of Prefixes

FAD — Family Development
HOE — Human Sciences: General

Undergraduate Courses

HOE 3050. Developments and Trends in Home Economics (2). Professionalism, career awareness, the job market, and current trends and developments in human sciences research.

HOE 4972r. Honors Work (3). (S/U grade only.) Prerequisites: Upper-division majors with an overall grade point average of 3.5 and consent of instructor. Course provides students in Family and Child Sciences 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 (6) semester hours.

Graduate Courses

FAD 5970. Special Project (3). (S/U grade only.)

FAD 6917. Methods of Research II (3).

HOE 6916. Research Communications (3).

HOE 6938r. Proseminar in Home Economics (1-2). (S/U grade only.)



SCHOOL OF INFORMATION STUDIES

Dean: Jane B. Robbins; *Associate Deans:* Kathleen Burnett, Don Latham; *Assistant Dean:* Bob Brooks

The field of information studies includes some of the most diverse and fascinating professional opportunities available today. Graduates in this field work in positions ranging across a wide variety of disciplines such as design, implementation, and use of online information systems. Essentially, information professionals are engaged in the business of helping other people locate, use, and understand the information they need for daily living and decision making. The current emphasis on the information sector of our economy makes this an exciting field of study.

Information studies offers the opportunity to blend the basic human need for information with involvement in cutting-edge technology and the development of systems for acquiring, storing, organizing, and delivering information. The tasks of fitting information systems to human needs rather than requiring human needs to fit information systems is the critical function of the information professional.

Information professionals are found in such areas as:

- Information Services and Support
- Network Management
- Network Services
- Usability Analysis
- End-user Training
- Information Product Evaluation
- Information Technology Planning
- Website Development and Administration
- Information Research
- Information Architecture

This important and fascinating field has experienced tremendous growth in recent years. As such, it offers diverse and challenging opportunities for working with emerging technologies from a humanistic point of view.

The school offers a bachelor of science (BS) degree in information studies, a master of science (MS) degree in library and information studies, a specialist (S) degree, and a doctor of philosophy (PhD) degree.

The School of Information Studies at The Florida State University was established in 1947 as a professional school and has been one of the top-ranked programs in the nation for many years. The master's degree program is accredited by the American Library Association and the school is a member of the Association for Library and Information Science Education (ALISE).

Requirements for All Incoming Students

All new main campus undergraduate students who enter the School of Information Studies beginning in Fall 2003 are required to provide their own laptop computer and the appropriate software. Specific information may be found on the school's website at <http://www.lis.fsu.edu>.

Requirements for a Major

Students are eligible to major in information studies after completing a program of liberal studies with an overall grade point average (GPA) of 2.0 or better. All students of The Florida State University must fulfill the Liberal Studies Program requirements set forth in the "Undergraduate Degree Requirements" chapter of the *General Bulletin*.

Transfer students who have earned an associate of arts (AA) degree from a Florida public community college or state university will be considered to have met the liberal studies requirement.

Program Prerequisites are:

MAC 1105	College Algebra (3)
CGS 2060	Computer Literacy (3)
COP XXXX	Computer Programming course in C, C++ or Java (3)

For additional information concerning undergraduate degree programs, please refer to the school's website at <http://www.lis.fsu.edu>.

Core Program

To major in information studies, a student must complete a minimum of thirty-six (36) semester hours in information studies, including the core courses:

LIS 3201	Information Needs and Preferences (3)
LIS 3267	Information Science (3)
LIS 3353	Technologies for Information Services (3)
LIS 3602	Information Sources and Services (3)
LIS 4276	Quantitative Methods in Information Studies (3)
LIS 4351	Interface Design (3)

Note: All courses must be completed with a minimum grade of "C-."

Requirements for a Minor

With the approval of the Academic Dean of the School of Information Studies and with the consent of the major department, a minor in information studies may be obtained upon completion of at least four (4) of the six (6) core courses required for the major. All courses must be completed with a minimum grade of "C-." All program prerequisites must be met for a minor in information studies.

Facilities

The School of Information Studies resides in the Louis Shores Building, which houses classrooms, computer laboratories and administrative offices. The **New Technology (NT) Laboratory** includes small-scale Local Area Networks, experimental servers, digital video equipment, and other cutting-edge technology. It provides students an opportunity to gain hands-on experience in network administration, UNIX server administration, multimedia resource production, and is used for special independent and group projects under the supervision of information studies faculty and staff. Made possible in part by a grant from the Kellogg Foundation, the **Usability Center** is a fully equipped usability laboratory for conducting, observing, recording and analyzing usability evaluations. The **Harold Goldstein Library** on the main floor includes professional and reference materials as well as the juvenile and young adult literature collections. The library holds a book collection of approximately 85,000 volumes, a serials and journals subscription list of over 400 titles, audio-visual items, and computer resources for online searching.

COLLEGE OF LAW

Dean: Donald J. Weidner; *Associate Deans:* Donna R. Christie, Mark B. Seidenfeld; *Assistant Deans:* Nancy L. Benavides; Stephanie L. Williams; *Director of Law Library:* Edwin M. Schroeder

The College of Law educates students for the practice of law and develops in them the breadth of vision and qualities of character necessary for meeting the full responsibilities of the legal profession. Its aim is excellence in the preparation of students so that they will acquire the knowledge, comprehension, skills, and judgment essential to the performance of legal services in a complex and rapidly changing society.

Prelegal Education

The services in which a law graduate may become engaged are so diverse that no uniform prelegal undergraduate course is prescribed. A broad cultural background has been considered a desirable preparation for law study. A committee of the Association of American Law Schools has suggested these basic objectives of prelegal education: comprehension and expression in words; critical understanding of the human institutions and values with which the law deals; and creative power in thinking. A broader perspective rather than a too-detailed specialization is generally preferred. Students intending to pursue international law are encouraged to have knowledge of a foreign language as well as a familiarity of the history and culture of that nation. Other areas of law, particularly environmental law and intellectual property, are enhanced by a solid background in science or engineering.

Students from all majors have completed programs in law school. Regardless of major, however, the potential law student should have extensive writing experience. Analytical writing, particularly involving original research, is a critical element of both legal education and the practice of law. In addition, it is valuable for students to have a broad background in the liberal arts and sciences. Such fields as history, economics, philosophy, and literature figure prominently in legal analysis and ideally would be part of a rounded pre-legal education. In particular, knowledge of American history, microeconomics, and work in philosophy (whether courses in logic or various branches of philosophical thought) provides both the background and the habits of mind desirable in legal education. Some undergraduate majors lend themselves particularly well to this broad-based, writing-intensive model of education. Stu-

dents whose majors do not provide many opportunities to write and to analyze texts critically should seek out elective courses that provide those opportunities. These courses are not prerequisite to a legal education, but students with strong undergraduate backgrounds are more likely to succeed in law school. The study required for a baccalaureate degree, a prerequisite to study at the College of Law, ordinarily provides a suitable background. As law study is interrelated with many disciplines, more emphasis is placed upon how well persons have done and their intellectual development than is placed upon the particular subjects studied. Undergraduate students who are thinking about law school are encouraged to visit the College of Law. Tours of the school and class visitations may be arranged through the College Admissions Office, 210 B.K. Roberts Hall, (850) 644-3787, admissions@law.fsu.edu.

Degree Program

The degree of juris doctor (JD) is conferred upon College of Law graduates. The requirements for graduation are the successful completion of eighty-eight (88) semester hours of law study, including required courses as determined by the faculty of the College of Law. Grade average must be "C" or above for graduation.

The College of Law provides students the opportunity to demonstrate their special expertise by earning certificates in environmental, natural resources and land use law or international law. Both certificate programs carry requirements for specific courses and activities and a choice of electives. The programs require students to take only three (3) semester hours in addition to those required for the juris doctor (JD) degree.

Requirements for Admission

All inquiries regarding admission should be sent to: *Admissions Office, College of Law, The Florida State University, Tallahassee, FL 32306-1601*. All registrants are required to have a baccalaureate degree from a regionally accredited college or university prior to commencing law study. Every prospective law student must take the Law School Admissions Test given by the Law School Admissions Services. Applications may be obtained from the College of Law or by writing: *Law School Admissions Services, Box 2000, Newtown, PA 18940*. Registration with the Law School Data Assembly Service is also required.

Applicants must furnish a transcript showing receipt of the baccalaureate degree prior to commencing law study. The Law School Admissions Test scores and the academic grade average are both considered among other factors in determining admission.

Interdisciplinary and Joint – Degree Programs

The College of Law offers joint-degree programs in cooperation with other colleges, schools and departments of the University. The joint-degree programs enable students to earn two degrees concurrently, the juris doctor and the master's. Generally, joint-degree students spend their first year in the College of Law.

A specific juris doctor–master of business administration dual degree program has been established for graduate students with the College of Business. Dual degree programs have also been established with the departments/programs of Economics, International Affairs, Urban and Regional Planning, the School of Public Administration and Policy, and with the School of Social Work.

Additional information regarding law programs is contained in the University's *Graduate Bulletin* and on the College of Law website: <http://www.law.fsu.edu>.

Summer Program in Law at Oxford

Director: Edwin M. Schroeder
eschroed@law.fsu.edu

The College of Law conducts the oldest summer program in Oxford sponsored by an American law school. Since its establishment in 1973, law students from the United States and Canada and a limited number of graduate students in related fields, lawyers, and others have been taught by tenured members of the Oxford University and The Florida State University law faculties. The five and one-half week program begins annually on the Tuesday following Oxford's Trinity term.

For information write or call: *Director, The Florida State University Summer Program in Law at Oxford, Tallahassee, FL 32306-1600; (850) 644-4578; or log on at http://www.law.fsu.edu/academic_programs/international_law/oxford.*

COLLEGE OF MEDICINE

Dean: J. Ocie Harris; *Associate Dean for Academic Affairs:* Alma Littles; *Associate Dean for Health Affairs:* Robert Brooks; *Associate Dean for Research:* Carol Van Hartsveldt; *Associate Dean for Student Affairs:* Myra Hurt; *Assistant Deans for the Regional Medical School Campuses:* Anthony Costa, Orlando Campus; Paul McLeod, Pensacola Campus; Eugene Trowers, Tallahassee Campus; *Director of the Clinical Learning Center:* Sarah Sherraden; *Director of the Medical Library:* Barbara Shearer

The Florida State University College of Medicine, in partnership with local communities, provides a four-year program of study leading to the medical degree (MD.) The college has received initial provisional accreditation from 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. According to the Association of American Medical Colleges (AAMC)

data, the top six majors for the 2002–2003 entering class included biology, biochemistry, chemistry, psychology, microbiology, and science/nonscience double 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, 112 COM, (850) 644-7678*, or email the school at *medinformation@med.fsu.edu*.

Degree Program

The degree of medical doctor (MD) is conferred upon College of Medicine graduates. The Student Evaluation and Promotion Committee of the College of Medicine will review the overall academic and professional performance of each fourth-year student in determining recommendation for graduation. To be considered for graduation, a student must be judged to be in good standing after successful completion of four years of basic medical science and clinical medicine, including required courses as determined by the faculty of the College of Medicine. The grade average must be 2.50, the student must successfully have completed the Observed Student Clinical Examinations (OSCEs), and must have passing scores on the United States Medical Licensing Examination (USMLE) Steps 1 and 2. Further information may be found in the *Graduate Bulletin* and in the *College of Medicine Student Handbook*.

Admission Requirements

All inquiries regarding admission should be sent to *College of Medicine, The Florida State University, Tallahassee, FL 32306-4300*, or via email at *medadmissions@med.fsu.edu*.

To apply to the College of Medicine at The 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 sec-

ondary application, an applicant should be a legal resident of Florida, 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 Advising Office in the College of Medicine or on the College of Medicine website 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 May.

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 one thousand 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-dentistry, pre-veterinary, pre-pharmacy, pre-physician assistant, and pre-optometry. 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 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 408* at the College of Medicine to set up an appointment with a health professions advisor.

SCHOOL OF MOTION PICTURE, TELEVISION, AND RECORDING ARTS

Dean: Frank Patterson

Established in 1989, the School of Motion Picture, Television, and Recording Arts (the Film School) is one of only seven university-based film conservatories in the country. In the short time the Film School has been in operation, it has quickly become recognized nationwide as an outstanding film program, and offers both bachelor of fine arts and master of fine arts degrees to those admitted. Both programs provide state-of-the-art film equipment and studio facilities for production and postproduction. The two programs are served by a completely equipped production center. The Film School funds all student film and tape workshops and productions, including the graduate and undergraduate thesis films.

The expertise of the Film School's faculty reflects the direction and range the school will take in the future. Mr. Frank Patterson, Dean of the School of Motion Picture, Television, and Recording Arts, has more than 20 years experience in the film and television industry as a writer, director, producer, editor, and consultant. He is joined by 13 faculty members, all of whom are specialists in the areas of writing, directing, cinematography, editing, sound recording, and production management.

Undergraduate Degree Program

The program of study leading to a bachelor of fine arts degree is designed to lead students through the complete process of creating short films, while incorporating a well-rounded liberal arts education that includes writing courses. Major courses include producing, directing, cinematography, screenwriting, sound recording, editing, production management, film history, film theory, and film aesthetics. It is a **limited access** major; therefore, admission is selective. Students may be accepted into the program at the freshman level or transfer in once seventy-five percent (75%) of the liberal studies requirements have been completed.

Complete 16mm film production and editing facilities, a multitrack recording studio with music-scoring capabilities, screening rooms, a duplication center with on-site engineering and management support, as well as a well-stocked video, laserdisc, and DVD library, aid in meeting the goals of the undergraduate program—to educate students in film and to help them become

integral members of the academic community of The Florida State University, as well as responsible members of the entertainment profession and participants in a creative and professional enterprise.

Graduate Degree Program

The program leading to a master of fine arts degree has set the following goals: to provide the creative and technical environment for professional specialization; to ground students in the history of each medium's theory and practice; and to prepare students for careers as artists, managers, producers, and craftspersons in the professional film and video production industries. Students work in production teams on narrative/dramatic films with each film being written, storyboarded, produced, directed, production designed, shot, recorded, and edited by graduate students. In addition, students are educated on the financial, legal, distribution, and exhibition aspects of the film business. The graduate program is designed and scheduled as a conservatory. It is meant to create a flexible and disciplined atmosphere where individuals can hone their talents, develop a body of work, and sharpen their capacities to work in teams.

Admission to the Undergraduate Program

Admission to the School of Motion Picture, Television, and Recording Arts is limited access, making admission selective and competitive. Approximately 15 freshmen and 15 transfer students are admitted each year as film students. Applicants must make application to and meet the requirements of The Florida State University Office of Admissions, as well as submit a separate application to the School of Motion Picture, Television, and Recording Arts. A student seeking to enter the program must offer an acceptable grade point average and be eligible for admission to The Florida State University. Each applicant must submit a 500–1000 word essay describing his or her background, artistic experiences, creative influences, personal objectives and future career goals, as well as a resume, two (2) letters of recommendation, transcripts from all high schools, colleges and universities attended, and SAT or ACT test scores. All application materials must

be received by the School of Motion Picture, Television, and Recording Arts by December 15th for the applicant to be considered for admission the following fall semester. Please refer to the "Academic Programs" chapter in this *General Bulletin* for further details on the application process. Applications are available online at <http://filmschool.fsu.edu>.

Admission to the Graduate Program

Admission to the School of Motion Picture, Television, and Recording Arts Graduate Film Conservatory is also of limited access, with 24 students admitted each year. Prospective students must make application to and meet the requirements of The Florida State University Graduate Admissions Office and submit a separate application directly to the Graduate Film Conservatory. All applicants must submit a 500–1000 word essay describing their artistic work, creative influences, personal objectives, relevant background, career goals, as well as three (3) letters of recommendation, a professional resumé, GRE scores, and two (2) official transcripts from each college or university attended, even if the courses from one school appears on the transcripts of another. As an option, you may submit a sample of your best work, including writing samples, storyboards, photos, etc. All application materials must be received by the School of Motion Picture, Television, and Recording Arts by December 15th for the applicant to be considered for admission the following fall semester. Applications are available online at <http://filmschool.fsu.edu>.

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 Film School requires that majors present proof of health and accident insurance (name of insurer and policy number) prior to registration in the fall semester each year. Students are expected to maintain this insurance throughout their enrollment in the Film School. Registration will be administratively canceled at the end of the second week of classes for any students failing to provide proof of insurance.

SCHOOL OF MUSIC

Dean: Jon R. Piersol; *Assistant Deans:* Seth Beckman, George Riordan, Bentley Shellahamer

The School 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 school maintains the highest quality faculty, students, curriculum, and facilities.

Numerous concerts and recitals are offered by the School 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, Madrigal Singers, 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 School of Music sponsors many faculty solo recitals as well as a faculty chamber music series. Of particular interest to the music student are bi-weekly student recitals, certificate and degree recitals, and programs sponsored by music honoraries. An artists' list and monthly calendar of School of Music programs and other cultural activities on campus are available upon request from the coordinator of music publicity in the School of Music.

The following honorary societies and professional fraternities are sponsored by the School 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 Music Educators National Conference, the American Choral Directors Association, and the American Guild of Organists.

The School 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 School of Music:

Bachelor of music—performance

Piano, Piano pedagogy, Organ, Harpsichord, Voice, Strings (violin, viola, cello, double bass), Woodwinds, Brass, Percussion, Harp, Guitar (classical)

Bachelor of music—music theatre

Bachelor of music—composition

Bachelor of music—music theory

Bachelor of music—music history and literature

Bachelor of music—music therapy

Bachelor of music education

Choral

Instrumental

General

Bachelor of arts in music

In addition to the bachelor of music and bachelor of music education degrees, the bachelor of arts degree in music is offered through the School 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 music studies, such as music criticism, commercial music, church music, music and law, and jazz studies.

The School 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: 1) approval of the major department; 2) approval of the School of Music; and 3) an approved placement audition level on an acceptable instrument or voice. Detailed information can be obtained from the School of Music's undergraduate studies office.

The following are the graduate degrees offered by the School of Music:

Master of music

Performance

Accompanying

Piano pedagogy

Choral conducting

Instrumental conducting

Jazz studies

Music theory

Composition

Musicology (both historical and ethnomusicology)

Opera

Music therapy

Master of music education

Master of arts in arts administration

Doctor of philosophy in music education

Doctor of philosophy in music (specializations in historical musicology, ethnomusicology, or music theory)

Doctor of education in music education

Doctor of music in composition

Doctor of music in performance

The doctor of philosophy degree in humanities with an emphasis in music is available from the College of Arts and Sciences. Consult the *Graduate Bulletin* for information on the graduate programs offered by the School of Music.

Facilities

Music Facilities

The School of Music enjoys excellent teaching, research, and performance facilities. The two School of Music buildings are located on Copeland Street on the East side of the campus. The Kuersteiner Building, completed in 1948 and recently renovated, is a four-story structure that is connected to the Wiley L. Housewright Music Building, which was completed spring 1979. The School 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 air-conditioned and 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 **Owen F. Sellers Music Amphitheatre** is used for outdoor performances in the fall and spring. **Ruby Diamond Auditorium** is a 1,575-seat 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 School 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 150,000 scores, sound recordings, video cas-

ettes, 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. A librarian and other library staff are on duty to assist students and faculty in their use of the library.

Opera Shops

Built in 1977–78, 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 Kuersteiner Building. Costumes are constructed or alterations are made on rental costumes each semester. In addition, costumes are constructed for the 16th-century Madrigal Christmas Dinner and various opera workshop scene programs.

Organs

A 1975, 34-stop Holtkamp tracker (mechanical action) organ in Opperman Music Hall is used for recitals, concerts, and lessons. Practice organs include a 1976, 3-stop Holtkamp tracker; a 1973, 6-stop Wicks; a 1967, 4-stop Holtkamp; and a 1976, 4-stop portable continuo/chamber organ, also with mechanical action, by Holtkamp. A restored English chamber organ built by Hill and Davison in 1837–38 is available to organ students for practice and performance.

Opportunities

Honors Program

The School 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 Program and Honor Societies” chapter of this *General Bulletin*.

Certificate Programs

In addition to the degree programs, the School of Music offers certificate programs that provide additional specialized areas of emphasis. The certificate programs offered include:

- Certificate in performance
- Certificate in church music (instrumental or vocal emphasis)
- Certificate in piano pedagogy
- Certificate in special music education
- Certificate in computers in music
- Certificate in early music
- Certificate in music of the Americas
- Certificate in world music

Certificate in jazz studies

Graduate Certificate in college teaching

Graduate Artist Certificate in performance (opera, piano, violin, viola, violoncello)

Graduate Certificate in the pedagogy of music theory

Music therapy equivalency

Additional information regarding the certificate programs may be obtained from the School of Music’s undergraduate or graduate studies offices.

Special Events

The School 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 School of Music’s publicity office or the school’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 School of Music enjoys the residencies of visiting scholars each year through the Lucilla and Wiley Housewright Eminent Scholar Chair in Music.

Shelfer Scholar Residency. The School of Music enjoys a continuing residency of a Professor of Voice through the Lucille P. and Elbert B. Shelfer, Jr., Eminent Scholar Chair in Music.

Summer Music Camps. Each year the School of Music provides a performance institute for high school and junior high school musicians.

Other Special Events. The School 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 School of Music.

Faculty Citations. The School 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 School 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 School of Music.

Scholarships/Awards

School 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.

School of Music scholarship assistance ranges from \$500.00 to \$2,500.00 for in-state students and \$500.00 to \$9,700.00 for out-of-state students. All undergraduate music major applicants are considered for School of Music financial assistance when they audition, provided they audition no later than the deadline established annually by the School of Music.

Additional information regarding School of Music financial assistance may be obtained from the *School of Music Bulletin* or by contacting the School of Music’s undergraduate studies office.

Requirements

Undergraduate Studies

Program Director: Dr. Ted Stanley

All students working toward the bachelor of music degree, the bachelor of music education degree, or the bachelor of arts in music degree register directly in the School 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 School of Music.

Liberal Studies 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 School 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. Placement in the appropriate applied music course is based on the requirements established by the National Association of Schools of Music. 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. Students may be given a temporary status in applied music during their first semester by placement in undergraduate coaching (MVO 1010, 2020, 3030, 4040). Students placed in undergraduate coaching must complete a jury exam at the end of their first semester of residence at the University for placement and advisement.

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:** students placed in undergraduate coaching (MVO 1010, 2020, 3030, or 4040) must complete a jury exam at the conclusion of one semester. If a student placed in un-

dergraduate coaching fails to take a jury exam, the student will be given an automatic placement of MV_101_. 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 School 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). Students may be given a temporary status in applied music during their first semester by placement in undergraduate coaching (MVO 1010, 2020, 3030, 4040).

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 Area IV Humanities/Fine Arts requirement by electing MUL 2110, Survey of Music Literature (two [2] semester hours), one year of MUH 3211–3212 Survey of Music History (six [6] semester hours,) and an approved literature course (a total of eleven [11] semester hours). Piano pedagogy, therapy, choral, instrumental, and general music education majors will elect PSY 2012, General Psychology, as three (3) of the six (6) required semester hours in Area III History/Social Science.

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 (overall—all college work) must be 2.0 or higher. Cumulative GPA for all music courses must be 2.0 or higher;

3. College Level Academic Skills Test (CLAST) must be successfully completed by sophomores prior to achievement of junior academic status;

4. Courses in liberal studies used to fulfill state State Board of Education Rule 6A-10.030 must each be completed with a grade of "C–" or higher;

5. A minimum of sixty (60) semester hours must be completed at a senior institution;

6. A minimum of forty (40) semester hours of upper division must be completed (3000 and 4000 level courses);

7. The final thirty (30) semester hours must be completed at The Florida State University; and

8. A minimum of one hundred twenty (120) 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 adviser 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.

Because of its accreditation by the National Association of Schools of Music, BM and BME students in the School of Music must achieve certain competencies that have been established by NASM. These are normally built into the curricula for the various degree programs so that students are not required to register for extra courses. Three competencies are worthy of special mention: improvisation, conducting, and technology.

Students normally meet the improvisation requirement through the completion of the MVK 2121 Class Piano sequence, where improvisation is an integral component of the class. Conducting competency is automatically included in several degree programs, most notably music education; students in other majors normally take MUG 3104. A course in music technology is included in each degree program.

Contact the Undergraduate Office in the School of Music for additional information and the options available for meeting these requirements.

Curricula Leading to the Bachelor of Music Degrees

Note: students are encouraged to obtain specific curriculum guides from the School of Music undergraduate studies office.

Performance Majors. Candidates for the bachelor of music degree in performance must select an area of concentration—piano, harpsichord, organ, voice, harp, guitar, or a string, woodwind, brass, or percussion 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 com-

plete recital during the senior year (MV_4971). An examination will precede every such recital by at least two weeks.

All performance majors except piano, harpsichord 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 (120) semester hours: thirty-six (36) semester hours and jury competency in applied music, including junior and senior recitals; eight (8) semester hours in keyboard literature; twenty-four (24) semester hours in theory; ten (10) semester hours in music history and literature; four (4) semester hours of ensemble; eight (8) semester hours of piano pedagogy and piano accompanying; student recital attendance; one (1) semester hour of music technology; one (1) semester hour of conducting and thirty-six (36) semester hours of liberal studies.

Organ Performance Majors. Total of one hundred twenty (120) semester hours: thirty-two (32) semester hours and jury competency in applied music, including junior and senior recitals; two (2) semester hours in applied music secondary; six (6) semester hours in pedagogy and repertory; twenty-four (24) semester hours in theory; ten (10) semester hours in music history and literature; four (4) semester hours of ensemble; student recital attendance; twelve (12) semester hours of a foreign language; one (1) semester hour of music technology; one (1) semester hour of conducting; and thirty-six (36) semester hours of liberal studies.

Harpsichord Performance Majors. Total of one hundred twenty (120) semester hours: thirty (30) semester hours and jury competency in applied music, including junior and senior recitals; four (4) semester hours in applied music piano or organ; six (6) semester hours of repertory/continuo playing and pedagogy; twenty-four (24) semester hours in theory; thirteen (13) semester hours in music history and literature; four (4) semester hours of ensemble; student recital attendance; one (1) semester hour of music technology; eight (8) semester hours of German, French, or Italian; one (1) semester hour of conducting; and thirty-six (36) semester hours of liberal studies.

If harpsichord is the principal or major instrument, the candidate must complete, by jury, the MVK 2321r–2323r series in either piano or organ in addition to the principal/major requirement in music secondary. Two (2) semester hours of ensemble involving harpsichord are required of all harpsichord principals/majors in partial fulfillment of the requirements in ensemble.

Voice Performance Majors. Total of one hundred thirty-two (132) semester hours: twenty-four (24) semester hours and jury competency in applied music, including junior and senior recitals; four (4) semester hours in applied music secondary; twenty-two (22) semester hours of theory; ten (10) semester hours in music history and literature; eight (8) semester hours of ensemble; stu-

dent recital attendance; twenty-one (21) semester hours in diction/foreign language; four (4) semester hours of choral literature and conducting and vocal pedagogy; six (6) semester hours of vocal solo literature; four (4) semester hours of opera/music theatre electives; one (1) semester hour of music technology; and thirty-six (36) semester hours of liberal studies.

Strings Performance Majors (Violin, Viola, Cello, Doublebass). Total of one hundred twenty (120) semester hours: thirty-two (32) semester hours and jury competency in applied music, including junior and senior recitals; four (4) semester hours in applied music secondary; twenty-four (24) semester hours of theory; ten (10) semester hours in music history and literature; twelve (12) semester hours of ensemble; student recital attendance; eight (8) semester hours of repertory and pedagogy; one (1) semester hour of conducting; one (1) semester hour of music technology; and thirty-six (36) semester hours of liberal studies.

Harp Performance Majors. Total of one hundred twenty (120) semester hours: thirty-six (36) semester hours and jury competency in applied music, including junior and senior recitals; four (4) semester hours in applied music secondary; four (4) semester hours in harp pedagogy and literature; twenty-four (24) semester hours of theory; ten (10) semester hours of music history and literature; student recital attendance; eight (8) semester hours of ensemble; four (4) semester hours of electives; one (1) semester hour of music technology; one (1) semester of conducting; and thirty-six (36) semester hours of liberal studies.

Guitar Performance Majors. Total of one hundred twenty (120) semester hours: thirty-two (32) semester hours and jury competency in applied music, including junior and senior recitals; four (4) semester hours in applied music secondary; twenty-four (24) semester hours of theory; ten (10) semester hours in music history and literature; four (4) semester hours of ensemble; student recital attendance; eight (8) semester hours in repertory and pedagogy; eight (8) semester hours of foreign language; one (1) semester hour of conducting; one (1) semester hour of music technology; and thirty-six (36) semester hours of liberal studies.

Woodwind, Brass, or Percussion Performance Majors. Total of one hundred twenty (120) semester hours: twenty-eight (28) semester hours and jury competency in applied music, including junior and senior recitals; four (4) semester hours in applied music secondary; six (6) semester hours in wind and percussion instrument literature and pedagogy; twenty-four (24) semester hours of theory; ten (10) semester hours of music history and literature; student recital attendance; twelve (12) semester hours of ensemble; six (6) semester hours of electives; one (1) semester hour of music technology; one (1) semester hour of conducting; and thirty-six (36) semester hours of liberal studies.

Composition. Approval by the composition faculty is required for admission to the program. Total of one hundred twenty (120) semester hours: sixteen (16) semester hours and jury competency in applied music; six (6) semester hours in applied

music secondary; thirty-two (32) semester hours of theory; eighteen (18) semester hours of composition; ten (10) semester hours of music history and literature; student recital attendance; senior recital of compositions; six (6) semester hours of ensemble; two (2) semester hours of electives; one (1) semester hour of music technology; one (1) semester hour of conducting; and thirty-six (36) 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 (120) semester hours: sixteen (16) semester hours and jury competency in applied music; six (6) semester hours in applied music secondary; thirty-two (32) semester hours of theory; four (4) semester hours of composition; ten (10) semester hours of music history and literature; student recital attendance, two (2) semester hours of electives; two (2) semester hours of thesis; six (6) semester hours of ensemble; twelve (12) semester hours of German; one (1) semester hour of music technology; one (1) semester hour of conducting and thirty-six (36) 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 History and Literature. Approval by the music history and literature faculty is required for admission. Total one hundred twenty (120) semester hours: twelve (12) semester hours and jury competency in applied music; six (6) semester hours in applied music secondary; twenty-two (22) semester hours of theory; thirty (30) semester hours of music history and literature; student recital attendance; two (2) semester hours of thesis; six (6) semester hours of ensemble; one (1) semester hour of music technology; twelve (12) semester hours of German; one (1) semester hour of conducting; and thirty-six (36) semester hours of liberal studies.

Candidates for the bachelor of music degree in music history and literature must pursue, and complete by jury exam, the study of a principal instrument through the MV_3331–3336 series. If keyboard is not chosen as the principal instrument, the candidate must fulfill the requirement for completion of third-year (MVK 3131r) class piano.

Music Theatre. Approval by the music theatre faculty is required for admission. Total of one hundred twenty (120) semester hours: sixteen (16) semester hours and jury competency in applied

music, including junior recital equivalency; four (4) semester hours in applied music secondary; sixteen (16) semester hours of theory; ten (10) semester hours of music history and literature; fourteen (14) semester hours of theatre studies; fifteen (15) semester hours of movement techniques/dance; four (4) semester hours of music theatre repertory; two (2) semester hours of ensemble; one (1) semester hour of major performance role; eight (8) semester hours of music theatre workshop; student recital attendance; one (1) semester hour of music technology; one (1) semester hour of conducting; and thirty-six (36) semester hours of liberal studies.

Music Therapy. Total of one hundred thirty-two (132) semester hours: twelve (12) semester hours and jury competency in applied music; six (6) semester hours in applied music secondary; sixteen (16) semester hours of theory; ten (10) semester hours of music history and literature; twenty-six (26) semester hours of music therapy; six (6) semester hours of other music; two (2) semester hours of senior project; student recital attendance; seven (7) semester hours of ensemble; sixteen (16) semester hours of behavioral/health/natural science; three (3) semester hours of elective; and thirty-six (36) 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 eighteen (18) semester hours in applied music is required.

Piano Pedagogy Majors. Total of one hundred twenty (120) semester hours: twenty-four (24) semester hours and jury competency in applied music, including senior recital; six (6) semester hours in keyboard literature; twenty-four (24) semester hours in music theory; ten (10) semester hours in music history and literature; two (2) semester hours in ensemble; sixteen (16) semester hours in piano pedagogy; three (3) semester hours of educational collateral; student recital attendance; five (5) semester hours of other music; one (1) semester hour of technology; one (1) semester hour of conducting; and thirty-six (36) semester hours of liberal studies.

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, harpsichord, harp, guitar, or organ. Candi-

dates for the bachelor of music education degree in instrumental music will choose as a principal instrument piano, organ, guitar, harpsichord, 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, harpsichord, 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. SAT score of 960 or better or an ACT score of 20 or better;
2. Grades of “C” or better in all freshman English and basic mathematics courses; and
3. 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, 4411, 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 (45) semester hours at The Florida State University or transfer of forty-five (45) 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;
4. SAT score of 960 or ACT score of 20;
5. Completion of liberal studies requirements in English and mathematics with minimum grade of “C-”;

6. Successful completion of the first semester of sophomore-level applied music (MV_ 2321–2326); 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 (5) semester hours of professional sequence course work 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 (134) semester hours: twelve (12) semester hours and jury competency in applied music; three (3) semester hours in applied music secondary; sixteen (16) semester hours of theory; ten (10) semester hours of music history and literature; four (4) semester hours of ensemble; student recital attendance; fifty-four (54) 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 (2) semester hours of senior project/recital; three (3) semester hours of psychology; and thirty-six (36) semester hours of liberal studies.

Bachelor of Music Education—Choral. Total of one hundred thirty-four (134) semester hours: twelve (12) semester hours of applied music; five (5) semester hours of applied music secondary; sixteen (16) semester hours of theory; ten (10) semester hours of music history and literature; two (2) semester hours of senior project/recital;

student recital attendance; fifty (50) 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 (6) semester hours of ensemble; three (3) semester hours of psychology; one (1) semester hour of music elective; and thirty-six (36) semester hours of liberal studies.

Bachelor of Music Education—General Emphasis. Total of one hundred thirty-four (134) semester hours: twelve (12) semester hours and jury competency in applied music; six (6) semester hours in applied music secondary; sixteen (16) semester hours of theory; ten (10) semester hours of music history and literature; five (5) semester hours of ensemble; student recital attendance; fifty (50) semester hours of music education including internship; two (2) semester hours of senior project; three (3) semester hours of psychology; and thirty-six (36) semester hours of liberal studies.

Curriculum Leading to the Bachelor of Arts Degree in Music

Total of one hundred twenty (120) semester hours: eight (8) semester hours and jury competency in applied music; sixteen (16) semester hours of theory; ten (10) semester hours of music history and literature; four (4) semester hours of ensemble; twelve (12) semester hours of upper-division music electives; student recital attendance; twelve (12) semester hours of foreign language; thirty (30) semester hours of electives/minor requirements; and thirty-six (36) semester hours of liberal studies.

Requirements for a Minor in Music

Admission to the program is by approval of the School of Music and by a placement audition at the principal level on an acceptable instrument or voice.

Music Minor. Total of twenty-five (25) semester hours: four (4) semester hours in applied music; twelve (12) semester hours of theory; seven (7) semester hours of music history and literature; two (2) semester hours of ensemble; and two (2) semesters of student recital attendance.

SCHOOL OF NURSING

Dean: Katherine P. Mason

The School of Nursing has been educating men and women for the practice of professional nursing since 1950. The school offers the bachelor of science in nursing (BSN), the master of science in nursing (MSN) and master's in nursing (MN). For further information on the master of science in nursing program, see the *Graduate Bulletin*. The undergraduate program is approved by the Florida Board of Nursing, and both programs are accredited by the National League for Nursing. The mission of the School of Nursing is to develop professional leaders in nursing for practice in diverse settings.

At the completion of the program, the student will have met all requirements for the bachelor of science in nursing. The generic graduate of the nursing program will have met the academic eligibility requirements for taking the state licensing examination.

The program is an upper-division 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 care plans for providing nursing care to individuals and groups in a variety of health care settings. The School of Nursing offers traditional or on-line programs for registered nurses: RN to BSN. The program is designed to capitalize on prior learning and experience of the registered nurse. The goal of the program is to provide registered nurses with the opportunity to attain further nursing education. Upon fulfillment of the prerequisite courses, the BSN program may be completed by the registered nurse in one year of full-time study (or part time in convenient blocks of study). The program consists of thirty to thirty-three (30–33) semester hours of nursing courses at The Florida State University. Upon successful completion of the first semester courses, the student may receive up to thirty (30) semester hours of validated credit. The course work will include content that is unique to baccalaureate education. If the student desires to matriculate into the master's program, a maximum of three graduate courses may be included in the baccalaureate study.

Graduates with baccalaureate degrees in nursing, either generic or registered nurse, are prepared to provide quality nursing care to individuals, families, and groups in health care agencies in both urban and rural areas. These include general hospitals, health departments, nursing homes, and other community health centers. These graduates have the potential for assuming leadership roles in a variety of health care agencies and for pursuing advanced degrees in nursing.

The program objectives of The Florida State University School of Nursing undergraduate program are to educate students who will be:

1. Critical thinkers who demonstrate intellectual curiosity, rational inquiry, problem-solving skills, and creativity in framing problems;
2. Culturally competent people who provide holistic nursing care to a variety of individuals, families and communities;
3. Knowledgeable coordinators of community resources who facilitate individual family and community access to those resources necessary to meet health care needs;
4. Politically aware individuals who participate in the profession and the practice of nursing with a global perspective;
5. Individuals who practice within the ethical and legal framework of the nursing profession;
6. Effective communicators who are able to share accurate information;
7. Competent caring nurses who assume the multiple role dimensions required in diverse health care settings;
8. Professional role models who promote a positive public image of nursing;
9. Responsible managers who balance human, fiscal and material resources to achieve quality health care outcomes; and
10. Professional nurses who assume a leadership role within the scope of practice in diverse settings.

[Adapted from IUSON, 1996.]

The nursing program is an upper-division major with required prerequisites and a sequential ordering of courses in terms I, II, III, IV, and V, and includes one summer term.

Facilities

There are a variety of clinical laboratory settings utilized for meaningful learning experiences. Tallahassee Memorial Regional Medical Center, Florida State Hospital, Elder Care Services, Apalachee Community Mental Health Center, Leon County Public Health Unit, Tallahassee Community Hospital, Leon County Schools, Tallahassee Pediatric Foundation, Children's Medical Services, 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, and Florida Hospital in Orlando for some ICU experiences. All experiences are under the direction of the faculty of The Florida State University School of Nursing.

Opportunities

The School of Nursing offers honors work in the baccalaureate program. For requirements and other information, see the "University Honors Program 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 the academic adviser at the School of Nursing. Scholarships and loans from federal, state, and private sources are available.

Requirements

Students desiring to enter nursing should indicate their major preference on the University application and seek guidance from the academic adviser in the School of Nursing. A separate application to the School of Nursing is required for admission to the nursing program and should be filed during the sophomore year. Students applying to the nursing major must be able to speak, read and write English proficiently. The School of Nursing reserves the right to interview applicants at its discretion. Students who do not have the necessary proficiency will have their nursing enrollment discontinued. Application deadline for Fall is February 1st and for Spring is September 1st.

Admission to the School of Nursing is contingent upon the following:

1. Completion of liberal studies at The Florida State University and attainment of junior standing or completion of an associate of arts degree from a Florida community college or an institution of higher education within the State of Florida, Division of Colleges and Universities; and
2. Completion of the State of Florida Common Course Prerequisites (see the 'Nursing' entry in the "Academic Departments and Programs" section of this *General Bulletin*).

The School of Nursing is a limited enrollment program and admission is competitive based on previous academic performance and an applicant questionnaire. 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 application. Recent 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 applicants to the School of Nursing. The Level II report must be on file at the School 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 denied admission to/progression in the School of Nursing. Applicants will be provided with fingerprint cards and waiver forms at the time they apply to the School 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 the background checks is approximately \$50.00 and must be paid by the student. The required cumulative grade point average (GPA) for entrance into the program is 3.0, with a 3.0 in the required sciences.

While enrolled in the nursing major, the student is expected to exhibit behavior that conforms with the Nurse Practice Act of the State of Florida. The School 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 school's standards.

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 "I" grade in a prerequisite course through the next term. If the "I" or incomplete is not removed by the end of the drop/add period at the beginning of the next term, the student will be dropped from the requisite course.

A student must achieve a grade of 2.0 in each nursing theory and clinical (both elective and required) course. Any course in which a grade below 2.0 is earned must be repeated. Students who do not receive a 2.0 in a clinical course must repeat that clinical course prior to progressing to the next level clinical course. Students who earn three (3) final course grades below 2.0 (including a grade of "U") in theory and/or clinical nurse courses, whether repeated or not, will not be permitted to continue in the School of Nursing. Students may repeat a 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 must complete successfully all clinical and theory courses in each semester prior to progressing to clinical and theory courses in the next semester. Students will not be 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 advised to carry the University health and accident insurance. To safeguard the health of clients,

nursing students are required to submit proof of health examination and immunizations upon entry into the nursing program. Students must submit proof of basic cardiopulmonary resuscitation (CPR) certification (American Red Cross) and malpractice/negligence insurance in required amounts prior to enrollment in the School of Nursing. This CPR certification and malpractice/negligence insurance should cover the period of enrollment in the major. Students are required to submit proof of annual tuberculin skin testing.

Candidates for the bachelor of science degree in nursing must comply with University regulations governing baccalaureate degrees and must complete the following:

1. Liberal studies requirements and specific prerequisites as outlined above;
2. Required nursing courses; and
3. Testing is required throughout the program. A one-time nonrefundable fee of \$225.00 (subject to change without notice) must be paid at the time of admission.



COLLEGE OF SOCIAL SCIENCES

Dean: David W. Rasmussen; *Associate Deans:* Robert E. Crew, Jr., Graham C. Kinloch

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.

Dedicated to the study of people and society, the social sciences have served as part of the core of the liberal arts tradition at The Florida State University. This heritage continues in the college's key roles in providing instruction for the University's liberal studies requirement, in staffing the University's writing program, and in leading the University's international thrust and foreign area programs.

Many of the great names in the history of the University were associated with the social sciences. Raymond F. Bellamy, after whom the Bellamy Building was named, was the first person to teach courses in sociology in the state of Florida. He was a leading figure in the progress of academic freedom in the state. The Florida State University also was the site of the classic study of democratic values by the late James M. Prothro and the late Charles Grigg of the faculties of political science and sociology, respectively; in the late 1950s they established the modern study of democracy in the United States. One of the University's first Nobel Prize nominees, James Buchanan, was a member of the faculty in economics. Some of the leading women in academic life helped establish social sciences at the University. These include Marian D. Irish and Daisy Parker Flory. The college has provided officers of the University, such as the President, the Provost and Vice President for Academic Affairs, and the Dean of the Faculties; the former Chancellor of the State University System had her faculty appointment in the college.

The tradition of faculty excellence continues. Today the social sciences provide the University with faculty members who serve as the Mildred and Claude Pepper Eminent Scholar Chair in Social Gerontology, Pepper Professor in Sociology, Daisy Parker Flory Professor, Raymond F. Bellamy Professor in Sociology, Charles Grigg Professor in Sociology, Charles Nam Professor in the Sociology of Population, 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, DeVoe Moore Professors 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, Abba Lerner Professor in Economics, James Gapinski Professor in Economics, LeRoy Collins Eminent Scholar Chair in Civic Education, LeRoy Collins Professor in Political Science, Francis Eppes Professor

in Political Science, Marian Irish Professor in Political Science, William G. and Budd Bell Professor of Urban and Regional Planning, University Distinguished Research Professor, and numerous university teaching and advising award winners. Members of the faculty have won prizes in their fields for research and service.

Study in social science develops knowledge of people and society. As such, it 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 patterns of political, social, cultural, and economic structures, their importance, and the basis for their change and growth.

Programs and Structure

The College of Social Sciences 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 and Family Center for the Study of Critical Issues in Economic Policy and Government, the Collins Center for Public Policy, the Stavros Center for Economic Education, Florida Public Affairs Center, the Sterling Center; and interdisciplinary programs in Asian Studies, African American Studies, Social Science, International Affairs, Law and Society, Environmental Studies, Russian and East European Studies, Health Policy Research, Demography, and Aging Studies.

The instruction offered by the college meets a variety of needs within the University. Social science is a component of the liberal studies and Honors programs, and each of the departments offering a bachelor's degree has course offerings in liberal studies and Honors. Housed in Broward Hall, the social sciences residential program in public and international 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 eight programs of study for the bachelor's degree, with departmental majors in economics and applied economics, geography, political science (including public administration), and sociology, and interdisciplinary programs in Asian studies, environmental studies, international affairs, Russian and East European Studies, and social science (which is offered interactively and in traditional classroom formats). In addition to these programs, undergraduate minors are offered in African American studies, law and society, public administration, and urban and regional planning. Many students in other colleges and schools 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 18 areas, the doctor of philosophy in six fields, and six 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 liberal studies 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 and peer 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' Residential Program in Public and International Affairs provides opportunities for students who live in Broward Hall 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 college maintains a microcomputer lab equipped with personal computers (IBM and IBM-compatible) and printers, and an extensive software library. Use of the facility is free for all

students in the college; priority is given to students working on assignments for courses taught by the college's faculty.

The **Center for Demography and Population Health** has a specialist population and demography library. The **Social Science Data Center** houses the FSU Survey Research Laboratory, a telephone survey center, and a state-of-the-art **Geographic Information System (GIS) Laboratory**. All are located in the Bellamy Building.

The Reubin O'D. Askew School of Public Administration and Policy, the Departments of Economics, Geography, and Political Science, and the Interdisciplinary Program in 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 of 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, and other international programs throughout the world. A semester in either the London or Florence 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, and the Netherlands. Students may take courses leading to the Interdisciplinary Social Science degree interactively through an agreement between The Florida State University and 16 community colleges across Florida.

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 and schools 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) 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. It is therefore 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, environmental studies, Russian and East European studies, Asian studies, and interdisciplinary social science, do not require completion of a minor;
4. Not more than eight (8) semester hours of credit in typing, shorthand, similar office skills, and applied music and music activities, and not more than two (2) semester hours in physical education activities, may count toward the minimum credit-hour requirements for the baccalaureate degree. The limitation on applied music credit is not enforced on majors in the college with a music minor; and
5. International affairs, Asian 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-two (30–42) semester hours. For specific requirements, refer to the individual departments in this *General Bulletin*.

Departmental Majors. Economics and applied economics, geography, political science (including public administration), and sociology.

Interdepartmental Majors. Asian studies, international affairs, environmental studies, interdisciplinary social science, 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 or through another college or school of the University. Minors are offered in the programs that offer majors, as well as the program in African American studies, public administration, law and society, and urban and regional planning. There is no minor in interdisciplinary social science. Students should consult their academic advisors on choice of appropriate minor(s).

The minor will consist of at least twelve (12) semester hours that meet both the requirements of the program offering the minor and the minor requirements of the student's major.

Work used in meeting minimal requirements for liberal studies or a foreign language requirement for the bachelor of arts degree may not be used for the minor.

Consult program and departmental entries in this *General Bulletin* for specific minor requirements.

Double Majors

The college encourages students to 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 exceptions: 1) The second major can count as the minor for the first major, and vice versa; and 2) If one of the majors is an interdepartmental major, semester hours in excess of thirty (30) taken for the interdepartmental major may be counted toward the minimum requirements of the second major. The second major may be taken in a college or school other than the College of Social Sciences.

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.

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 Student Services, *108 Stone Building*. Admission to teacher education is distinct from admission to a college or school, 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 simultaneously with their major programs.

Honors in the Major

The College of Social Sciences offers honors in the major in all of the college's programs. For requirements and other information, see the "University Honors Program 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 (12) or more graded semester hours with a term GPA of 3.5 or better earn the distinction of being on the dean's list.

SCHOOL OF SOCIAL WORK

Dean: Bruce Thyer; *Associate Dean:* Thomas Edward Smith; *Assistant Dean:* Pamela W. Graham

The social work program at The 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 The Florida State University, the graduate program in social work accepted the first class of students. Two years later the master of social work program was accredited by the Council on Social Work Education and has earned reaccreditation continuously since that time. The undergraduate program was accredited in 1974, the first year that undergraduate programs were granted accredited status by the council.

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 is now one of 23 schools in the United States that offers social work degrees at the baccalaureate, master's, and doctoral levels.

As the profession of social work begins the 21st century, there is an ever-increasing awareness of the impact of the many social changes that have taken place in our contemporary world. The School of Social Work is dedicated to the preparation of tomorrow's social workers. The school'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 fieldwork provides students with a rich educational experience and the opportunity for the integration of theory and practice.

The School of Social Work is committed to the pursuit and delivery of excellence in social work education. Through teaching, research, and service, the school educates its graduates for productive careers in diverse professional 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 school's initiatives build on the traditional heritage of social work, and are guided by a commitment to community-based social services, including the development of caring communities.

Recognizing that communities function as political, social, and familial entities, the school'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 school recognizes and values achieving mutuality among diverse community groups, and promotes models of service delivery empowering the poor and disadvantaged and ensuring the social care of all community members.

Degree Programs

Bachelor of Social Work (BSW)

Undergraduate Program Director: Kim Maddox

The curriculum offered at the baccalaureate level is designed to enable students to provide services to individuals, families, groups, communities, and organizations at the beginning level of social work practice.

Master of Social Work (MSW)

MSW Program Director: Pamela W. Graham

The curriculum at the MSW level is designed to provide quality preparation for advanced practitioners who will work with diverse client systems and problems. Students may choose either clinical or social policy and administrative concentrations.

Doctor of Philosophy in Social Work (PhD)

PhD Program Director: Wendy Crook

The PhD program in social work is designed to advance the social work profession through the development of researchers/scholars and educators.

Overseas Study

The Florida State University offers students the opportunity to study abroad with the approval of the academic adviser. For information concerning eligibility, fees, and other details of these programs, contact the Office of International Programs. Social work majors are encouraged to consider these opportunities for study overseas. Cognates and electives outside the school can be taken at the overseas centers; occasionally social work courses are offered.

Requirements

Requirements for a Major

Admission requirements to the undergraduate social work program include completion of liberal studies at The Florida State University or completion of an associate in arts degree from a Florida public junior college and a minimum of a 2.2 grade point average (GPA) on all college work attempted. To continue in the program, students must meet the following requirements:

1. Students must complete the following Common Core Requirements necessary for the degree program. All of these courses must be completed, with a grade of "C-" or better, no later than the second semester as a declared major: 1) American Government (American National Government or American Government) or Political Science; 2) Biology (Human Biology or Human Anatomy and Physiology); 3) Economics (Microeconomics or Macroeconomics); 4) Introductory Psychology; and 5) Introductory Sociology/Social Problems or Anthropology.
2. Students must satisfactorily complete SOW 1502r, 3350, and 3203 (with grades of "C-" or better);
3. Students must complete a formal application as a social work major while enrolled or upon completion of SOW 1502r, 3350, and 3203.

In addition to the forty-nine (49) semester hours in required social work courses, social work majors must complete eleven (11) semester hours of elective course work. These may be in social work or in consultation with the School of Social Work, in related disciplines of anthropology, biology, criminology, economics, geography, political science, history, home and family life, psychology, rehabilitative science, sociology, and statistics.

A minimum of forty-nine (49) semester hours in social work, including a block field placement of twelve (12) semester hours, is required for graduation. It is expected that each student, with counsel from the adviser, will move through the required courses in a uniform pattern, observing cognate requirements and course prerequisites and corequisites. Required courses are SOW 1502r, 3203, 3350, 4104, 4232, 4323, 4341, 4348, 4403, 4414, 4510, 4522, and 4626 plus a required diversity course. Students must complete the required courses in sequence.

Students must maintain an overall GPA of 3.0 or better in the major. No social work course with a "U" or a letter grade below "C-" will apply toward a social work major.

The School of Social Work **does not** require a foreign language as part of its undergraduate program of studies. **However**, in order to graduate from The 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 (8) 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, or during their first two years in college, **before** beginning their social work program of studies.

Students majoring in social work are not required to complete a minor in another department.

Field Instruction

Field instruction is a vital and integral part of the total curriculum. Through actual experience in the field, students are helped to link theory to practice. Qualified agency staff members serve as field instructors, and the field agencies selected by the school cover the broad spectrum of social work practice. Currently, the school is affiliated with more than 400 agencies across the state of Florida, in areas of the southeastern United States, and internationally.

Undergraduate field instruction, SOW 4510, is a twelve (12) semester hour course (512 clock hours) that requires the student to register for and complete successfully a thirty-two (32) hour per week field placement for one semester. Students must register concurrently for SOW 4522, Integrative Seminar. The field instruction 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 2.0 in order to register for SOW 4510.

Honors Programs

The School of Social Work encourages students to apply for the honors program. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Research and Outreach Programs

Institute for Family Violence Studies

The endowed Institute for Family Violence has been established within the School of Social Work to examine the effects of family violence across the life span for a wide range of populations. Recognizing the legacy of violence on the subsequent development of victim survivors, the institute is concerned with the contextual and developmental aspects of family violence. The institute maintains the ecological perspective of social work supporting analyses of societal institutions, policies, and practices that impact the incidence of interpersonal violence and trauma.

Institute for Health and Human Services Research

The Board of Regents of the State of Florida University System established the Institute for Health and Human Services Research (IHHSR) in 1986. First called the Center for Human Services Policy and Administration, it was created as an interdisciplinary University-wide research institute, with a mission to conduct research for both the public and the private sector. Its goal is to develop and disseminate knowledge to improve policy decisions. In 1999, IHHSR was relocated to the School of Social Work at The Florida State University.

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 The 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.

Boys' Choir of Tallahassee

The Florida State University School of Social Work's Boys' Choir of Tallahassee is a community outreach program for males who come from all public and private schools throughout the Tallahassee area. The Boys' Choir of Tallahassee continues to prepare young men for the twenty-first century through music, discipline, and academic excellence. With its motto "No Excuses," the choir continues to grow in popularity on the local, state, national and international levels.

Trinity Institute for the Addictions

The endowed Trinity Institute for the Addictions has established a state-of-the-art program for the study of addictions. The multifaceted program focuses on every kind of addiction and makes use of all academic disciplines that illuminate the causes, prevention, and treatment of addictions. The use of technology to make information available globally is an additional component of the program, as is the establishment of an Eminent Chair in Addictions.

Student Organizations

The **Association of Student Social Workers (ASSW)** 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 school. 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.

Scholarships and Awards

Richard Burns Scholarship. This scholarship is awarded to a BSW or MSW student in one of social work's part-time programs. Priority is given to the returning or change-of-career student.

Mark DeGraff and Lula Hamilton DeGraff Scholarship. This scholarship is awarded to a full-time senior undergraduate, or a full or part-time graduate (MSW or PhD) student who is interested in working with youth and their problems, or intends to conduct research related to factors which influence the growth and development of youth. A letter requesting consideration must be submitted. The written statement's clarity is a consideration.

Joanna F. Gorman Scholarship. Full-time upper-level undergraduate or graduate students (MSW or PhD) may apply for this scholarship. A statement must be submitted summarizing knowledge of, and interest in, one of the following fields: child welfare, maternal and child health, community mental health, or primary prevention in health or mental health. An agreement to take two specialized courses and an internship in the specialization area selected should be included, as well as an intent to work at least one year in the chosen field following graduation. A transcript (unofficial accepted) and two (2) letters of reference which attest to student's academic achievements, good character, and community service, also must be attached.

Robert P. Hurtle Scholarship for Field Instruction. This is a field scholarship for an undergraduate or MSW student who demonstrates a commitment to practicing social work in either the field of aging or on a military installation, and who also will be completing a field practicum in one of these areas. A statement outlining work or volunteer experience must be submitted, along with course work (if any) taken in the field of aging, financial need, and career goals in aging or military social work. The student should specify which semester field placement will begin.

Margaret H. Jacks Scholarship in Aging. This scholarship is presented to a full- or part-time MSW student in good academic standing. The student must have completed one course on aging or demonstrated a commitment to the field of aging. Students must submit a transcript, a statement of need, a written commitment to field of aging, and list of volunteer or work experiences.

Richard M. King Scholarship in Social Work and Business Administration. Any graduate student who is interested in earning both an MSW and a MBA may apply for this scholarship. Individuals who have previously earned an MSW or MBA still may qualify for this scholarship provided the intent is to pursue the additional degree

at The Florida State University. Students should submit a statement outlining eligibility and intent.

Koalska Undergraduate Scholarship. Full-time undergraduate students who demonstrate financial need, and whose parents did not attend college, are eligible for this scholarship. A written statement of eligibility must be submitted.

Joyce Harper Laidlaw Scholarship in Child Welfare. MSW or PhD students who demonstrate dedication and commitment to work in the area of child welfare, and also show financial need are eligible for this scholarship.

Coyle and Mabel Moore Scholarship. This scholarship is awarded to a full-time BSW, MSW, or PhD student. Students should submit a statement showing evidence of good character, citizenship, volunteer work, and financial need.

Sarah Sealey Morrill Scholarship. For a BSW, MSW, or PhD student. Submit a statement of interest in the field of community mental health.

MSW Class of '75 March Graduates Scholarship. For two-year full-time MSW student interested in community-based practice, advocacy or public policy. Students should submit a statement of interest, including specific evidence of commitment to social justice concerns and attach a transcript (unofficial accepted).

Bernhard Scher Undergraduate Scholarship. This scholarship is available to undergraduate (sixty [60] semester hours completed at college level) social work majors enrolled in social work classes, with an overall GPA of at least 3.5. Submit an essay emphasizing "Social Work Values" not to exceed 1500 words, with a transcript attached (unofficial accepted.)

Guy and Delores Spearman Scholarship. This award is presented to a MSW student from Brevard County with overall GPA of 3.0 or greater. Submit a letter verifying eligibility, with a brief statement of career goals.

Victoria E. Warner Scholarship. This scholarship is available to a MSW student (full or part-time) who is a graduate of Florida A & M University. Submit a written statement of need, and statement of career plans relative to working within the African-American community.

Program Opportunities

The School of Social Work offers other opportunities that afford the 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. Course work addresses the following: 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 the 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.

Family Social Work Practice Certificate Program

This certificate program is designed for MSW clinical concentration students who wish to develop advanced competence in couple and family social work. Requirements for a specialty in family social work practice include a total of sixty-nine (69) semester hours for the traditional MSW student (nine [9] semester hours beyond the normal sixty [60] hours) and forty-eight (48) semester hours for the advanced standing student (nine [9] semester hours beyond the required thirty-nine [39] hours). Traditional MSW students could complete the certificate program within their regular course of studies by taking course work in the summer (between their first and second year). Advanced standing students could attend an additional semester in order to complete the certificate requirements.

Interdisciplinary Graduate Minor in Dispute Resolution

This minor provides an opportunity for students to develop mediation and dispute resolution expertise. The minor is offered in conjunction with a variety of graduate programs in several schools and colleges at The Florida State University.

Certificate in Aging Studies

The Florida State University Pepper Institute on Aging and Public Policy offers an opportunity for a concentrated education in aging studies. It provides for students with an interest in aging an educational credential that indicates their completion of a multi-disciplinary course of study in aging and old age.

The Arts and Community Practice Certificate

The program is designed for both undergraduate and graduate students who wish to develop a focused concentration on the application of the arts to community development. Inclusive of groups and families, this program addresses all stages of human development. Particular attention will be given to prevention, enrichment, and response to social concerns.

Joint MSW/JD Program

The program is for students interested in combining a MSW with a degree in law. Persons graduating with this dual degree practice in areas such as family law, child advocacy, domestic violence, public policy, and public defense. Students interested in this dual degree must be admitted simultaneously and independently to both the University's School of Social Work and the College of Law.

Joint MSW/MPA Program

The Florida State University's Reubin O'D. Askew School of Public Administration and Policy and the School of Social Work offer a joint-degree program leading to the degree of Masters of Social Work (MSW) and Masters of Public Administration (MPA). This is one of the few joint-degree programs in these fields offered in the United States. The program prepares students for positions in public, private and nonprofit human service organizations by gaining knowledge in both social work and public administration.

SCHOOL OF THEATRE

Dean: Steven Wallace; *Associate Deans:* Bill Byrnes, T. Lynn Hogan

Four different theatres serve future theatre artists in Tallahassee. **The Richard Fallon Theatre**, a 500-seat proscenium stage, is home of the school's Mainstage subscription series of classics, musicals, and contemporary plays for the community and the student body. **The Studio Theatre**, a 200-seat proscenium stage, offers graduate directors, designers, and technicians an opportunity to produce fully mounted productions as part of their degree requirements. **The Lab**, an intimate thrust stage of approximately 150 seats, is used for experimental work. **The Fine Arts Annex** contains a classroom/rehearsal space that doubles as a performance venue for the numerous independent student-produced works sponsored by the School of Theatre Student Advisory Council.

In addition to its degree programs, the School of Theatre has created The London Theatre Experience, an extraordinary, full-semester curriculum in London for select theatre majors. The emphasis of the program is on classical theatre training and includes theatre-going, backstage tours, classes with leading theatre artists, special internships and performance opportunities. Students earn a full semester of academic credit while participating in a program that will make a real difference in their lives as students, artists, and human beings. Graduate credit is available only by special request.

Degrees Offered

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 course work at both undergraduate and graduate levels. To major in theatre, a student must pass a screening process and maintain appropriate standards of achievement. 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 in-depth training in either acting, design/technology or musical theatre. An honors program is available for qualified undergraduate students. For further information, contact the Associate Dean for Academic and Student Services, School of 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 either acting, directing, scene design, costume design, lighting design, technical production, or theatre management. The doctor of philosophy (PhD) in theatre is a research degree that indicates the perfection of individual skills in theatre scholarship.

Facilities

There are several performance spaces available for the production of plays. All include rehearsal space. They are: the Mainstage Theatre in the Fine Arts Building in Tallahassee; the Studio, or Augusta Conradi Theatre in the Williams Building in Tallahassee; The Lab Theatre in Tallahassee; and the Free Works Theatre in the Fine Arts Annex in Tallahassee.

The Mainstage 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 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. Two subscription-season 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. The Free Works Theatre is operated by the Student Advisory Council as a venue for student productions.

Requirements

Admission To Upper Division

Students should contact the School of Theatre Office of Academic and Student Services regarding GPA and course requirements for admission to upper division.



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 (0) credit, S/U course to insure participation at designated school activities. These include attendance at all school meetings, required plays, the design/tech exhibit, and other required events. Failure to comply with this requirement will jeopardize graduation eligibility.

Liberal Studies 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*.

Theatre Laboratory Requirement

Theatre majors must complete three semesters of technical theatre laboratories. 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 laboratory course.

Retention Standards

Not formally admitted BA students are advised by peer advisors. Formally admitted BA and BFA students are advised by a professional academic advisor. Students are required to meet with their adviser every semester during the official advising period. Failure to do so will result in a hold on registration.

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. BFA design/technology students must maintain a minimum GPA of 3.0 in major course work and a 3.0 cumulative GPA. 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 program.

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 Program 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 which allow students the opportunity to explore selected areas of the theatre. Theatre core requirements include courses in acting, directing, voice or movement, technical theatre, design, and theatre history. 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 (24) semester hours of course work must be taken outside of the major, in addition to liberal studies. Hours taken to satisfy the bachelor of arts foreign language requirement and the multicultural requirement (if not part of either the major requirements or liberal studies) may be part of that twenty-four hours. For more information, see the 'Bachelor of Arts Degree' section of the "Undergraduate Degree Requirements" chapter of this *General Bulletin*.

Major

A minimum of thirty-nine (39) semester hours of course work in theatre is required. Contact the Office of Academic and Student Services for a complete list of requirements.

Note: at least eighteen (18) semester hours of these required courses must be completed in residence.

Minor

A minimum of twelve (12) semester hours in theatre courses, six (6) of which must be in courses numbered 3000 or above. At least six (6) semester hours of theatre 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, design/technology 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 audition or portfolio review and a resumé. 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 candidate who fails to maintain high standards will be dropped from the program. Although it is possible to complete all requirements within four years, it is likely that a successful course of study will take longer, since graduation depends as much on demonstrated proficiency as on credit hours.

Common Curriculum

Beyond the liberal studies requirements, BFA students are required to complete approximately seventy-four to eighty-six (74–86) semester hours in theatre and related courses. All BFA students are required to complete successfully core theatre courses and technical laboratories. Contact the Office of Academic and Student Services for complete degree requirements.

Concentration in Acting

Students with a concentration in acting must complete TPA 2248; TPP 2110r, 2111r, 2190L, 3510r, 3511r, 3710r, 3711r, 4112r, 4512r, 4712r, 4730, 4922r; THE 4260 and three (3) semester hours from THE 4110, 4111, 4233, 4236, 4244, 4245, or 4433; and eight (8) elective semester hours in performance.

Concentration in Music Theatre

Students with a concentration in music theatre must complete MUT 1111, 1112, 1241, 1242; MVV 3532r, 4542r; THE 4244, 4245; TPA2248; TPP 2110r, 2111r, 3510r, 3511r, 3711r, 4112r, 4512r, 4923r. A minimum of five (5) semester hours of private voice, keyboard, and dance are also required until proficiency is demonstrated in these skills.

Concentration in Design/Technology

Students should contact the School of Theatre for information about the BFA in design/technology.

SCHOOL OF VISUAL ARTS AND DANCE

Dean: Sally McRorie

The School of Visual Arts and Dance is relatively young within the history of the University. Founded in 1973, the school has existed largely as presently constituted since 1978 when the Department of Dance faculty joined the other components of the school: the Department of Art, the Department of Art History, the Department of Art Education, the Department of Interior Design, and The Florida State University Museum of Fine Arts. In 1990 the school assumed administration of the Appleton Museum of Art. These academic units offer an extensive program of instruction in all areas of the visual arts and dance. In fact, every level of undergraduate and graduate degree that a university can offer in these areas is represented within the school, including the established terminal degree in each discipline. Accordingly, the school is unique in the state of Florida.

Enhancement of the fine and performing arts is one of The Florida State University's specific goals as presented in its mission statement. The comprehensive nature and consistent quality of the school may be credited in large part to the recognition and support for 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 School of Visual Arts and Dance shares much in common with an independent art 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, art 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 school promotes the visual arts 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, 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 art 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 school—and indeed throughout The Florida State University campus—to keep the spirit of open inquiry vital and productive.

Regardless of the department of a student's major, the School of Visual Arts and Dance 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 School

By and large the school has few requirements which 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 school, although minors are offered. Two programs grant degrees categorized as "limited access" in the sense that they are proficiency based: 1) the bachelor of fine arts (BFA) in graphic design and in art (studio) and master of fine arts (MFA) in art (studio); and 2) the BFA and MFA in dance. Entrance is gained through portfolio review or audition.

Facilities

In addition to the lecture rooms, general classrooms, seminar rooms, and media-specific laboratories (e.g., printmaking, electronic imaging, ceramics, sculpture, photography, and the like), two specialized facilities merit particular mention. First, art students in designated degree programs are provided individual studios in two large "warehouses" at the edge of campus, 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. Secondly, dance students train in spacious, comfortable studios and perform in their own dance theatre, a fully equipped professional facility located in the same building as their major classes.

Honors in the Major

The School of Visual Arts and Dance offers honors in the major in several departmental and interdepartmental programs. For requirements and other information, see the "University Honors Program 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 countries such as Spain, France, and South Africa. Operated by The 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 School of Visual Arts and Dance has a particular affinity for the Florence program, one which 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 school faculty has taught in Florence, and the school has significant representation among the students studying there. More recently, greater emphasis has been placed on the opportunities at the London Center. Students of 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 Studies

The School of Visual Arts and Dance is the academic home of The Florida State University's museum studies certificate 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 museum studies 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 firsthand experience at the School's Museum of Fine Arts, the Appleton Museum of Art, the Ringling Museum of Art, and in other regional and national museums. The Florida State University's international programs offer museum internships at international institutions in cities such as London and Florence.

On 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 school. 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.

The Appleton Museum and Collection

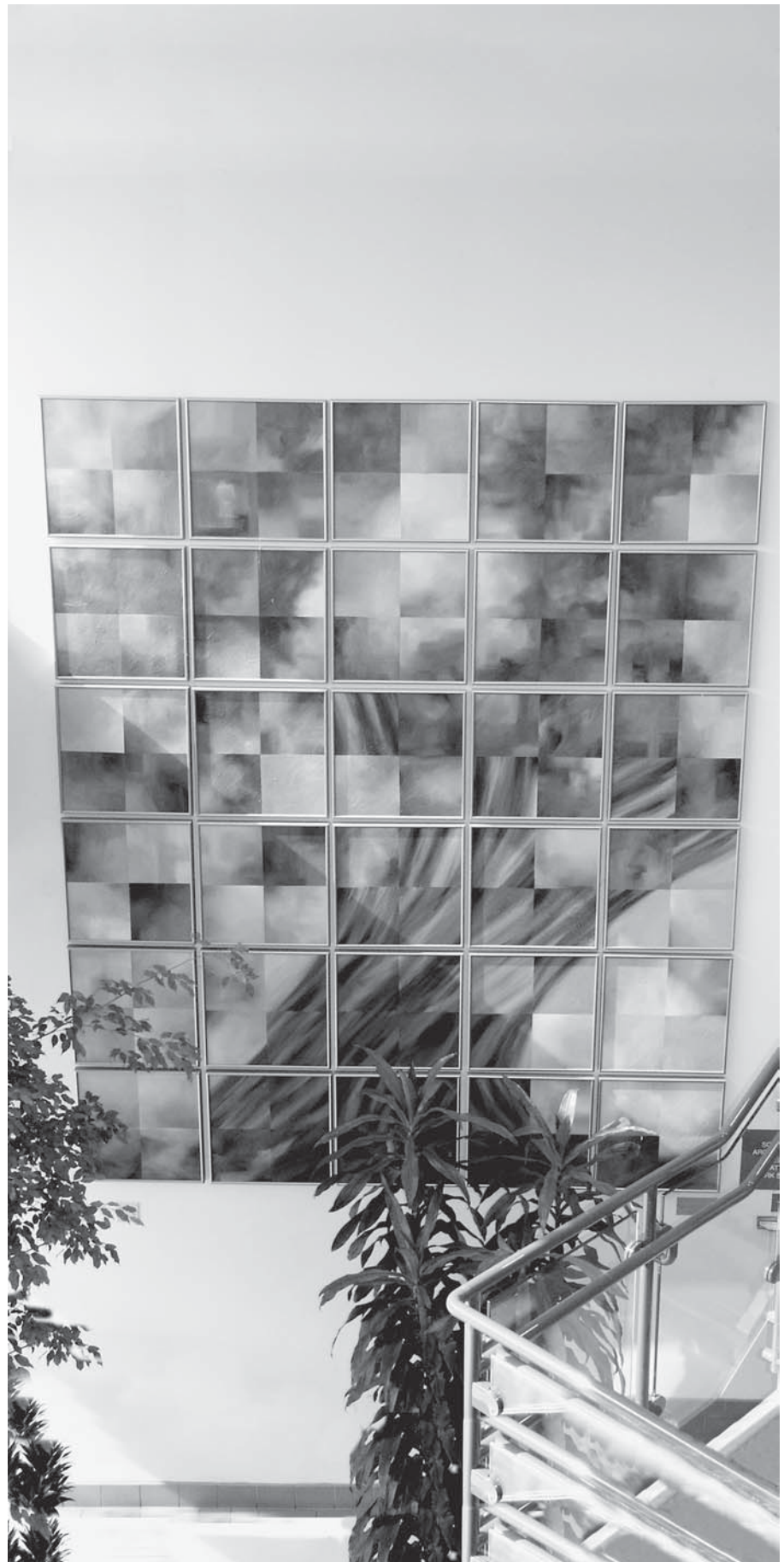
The Appleton Museum of Art is a recent complement to the academic and cultural components of the University; it is administered by the school. Located approximately three hours' drive from Tallahassee in Ocala, Florida, this beautiful museum was constructed in 1987 to house the extensive collection of the donor, Arthur I. Appleton. Works of art bridging many cultures over thousands of years form the core of the school's outreach program in central Florida and provide rich source material for students of art and art history. The museum was expanded in 1996 through the addition of the Edith-Marie Appleton Wing, which provides facilities for changing exhibitions, classes, workshops, and other educational activities.

The John and Mable Ringling Museum of Art

Beginning with the new millenium, The Florida State University has been charged by the State of Florida with administration of the Ringling Museum of Art in Sarasota, Florida. This incredible museum complex with its superb internationally renowned art collection, circus museum, and Ringling mansion, offers multiple opportunities for students in the arts, museum studies, and the humanities. Programs are in the process of being defined which will derive from and enhance graduate education in the School of Visual Arts and Dance, as well as many other areas within The Florida State University.

Accreditation

The School of Visual Arts and Dance 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, and the Foundation for Interior Design Education Research.





THE COMMON COURSE NUMBERING SYSTEM

Florida's Statewide Course Numbering System

Courses in this *Bulletin* are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by seventeen participating private institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

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 type of institution and discipline field or specialization. The course prefix and each digit in the course number have meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "course equivalency profiles."

Example of Course Identifier

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
SYG	1	0	1	0	
Sociology, General	Freshman level at this institution	Entry level general sociology	Survey course	Social problems	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 the participating regionally accredited postsecondary institutions that offer the course, with a few exceptions (Exceptions are listed below.) For example, a survey course in social problems is offered by 31 different postsecondary institutions. Each institution

uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take this course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-Level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and 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, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. 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 native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

The Course Prefix

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory 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 used to identify the course.

Authority for Acceptance of Equivalent Courses

Section 1007.24(7), Florida Statutes, reads: "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

The following courses are exceptions to the general rule for course equivalencies and may not be transferable. Transferability is at the discretion of the receiving institution:

1. Courses in the _900 – _999 series (e.g., ART 2905);
2. Internships, practica, clinical experiences, and study abroad courses;
3. Performance or studio courses in art, dance, theatre, and music;
4. Skills courses in criminal justice; and,
5. Graduate courses.

College preparatory and vocational preparatory courses may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to: *Florida Department of Education, Office of Postsecondary Education Coordination 401 Turlington Building, Tallahassee, FL 32399-0400.* Special reports and technical information may be requested by calling telephone number (850) 488-6402, or Suncom 278-6402.

COURSE PREFIXES, DEFINITIONS, AND LOCATIONS

How to Find a Course:

The following lists course subjects alphabetically by letter prefix. The column to the right contains the department(s) and/or program(s) offering that course subject. The departments/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

Note: courses that may be repeated for credit are designated by an “r” immediately following the course number.

Prefix	Definition	Program(s)
ACG	Accounting	Accounting
ADE	Adult Education	Educational Leadership and Policy Studies
ADV	Advertising	Communication
AFA	African American Studies	African American Studies
AFH	African History	History
AFR	Air Force ROTC	Aerospace Studies
AMH	American History	History
AML	American Literature	English
AMS	American and Florida Studies	American and Florida Studies
ANG	Anthropology—Graduate	Anthropology Asian Studies International Affairs Russian and East European Studies
ANT	Anthropology	Anthropology International Affairs Russian and East European Studies
ARA	Arabic Language	Modern Languages and Linguistics
ARE	Art Education	Art Education
ARH	Art History	Art Art History Classical Languages, Literature, and Civilization
ART	Art	Art
ASH	Asian History	Classical Languages, Literature, and Civilization History
ASN	Asian Studies	Asian Studies
AST	Astronomy	Physics
BCH	Biochemistry	Biological Science Chemistry and Biochemistry
BME	Biomedical Engineering	Chemical Engineering
BMS	Biomedical Science	Biological Science Medicine
BOT	Botany	Biological Science

BSC	Biological Science	Biological Science Nursing
BUL	Business Law	Risk Management/ Insurance and Real Estate
CAP	Computer Applications	Computer Science
CBH	Comparative Psychology/ Animal Behavior	Psychology
CCE	Civil Construction Engineering	Civil Engineering
CCJ	Criminology and Criminal Justice	Criminology and Criminal Justice
CDA	Computer Design/ Architecture	Computer Science
CEG	Civil Geotechnical Engineering	Civil and Environmental Engineering
CEN	Computer Engineering Software	Computer Science
CES	Civil Engineering: Structures	Civil and Environmental Engineering
CGN	Civil Engineering	Civil and Environmental Engineering
CGS	Computer General Studies	Computer Science Educational Leadership and Policy Studies Elementary and Early Childhood Education Management Information Systems
CHD	Child Development	Family and Child Sciences
CHI	Chinese Language	Modern Languages and Linguistics
CHM	Chemistry	Chemistry and Biochemistry
CHS	Chemistry—Specialized	Chemistry and Biochemistry
CHT	Chinese Literature in Translation	Modern Languages and Linguistics
CIS	Computer and Information Systems	Computer Science
CJC	Criminal Justice: Corrections	Criminology and Criminal Justice
CJE	Criminal Justice: Law Enforcement	Criminology and Criminal Justice
CJJ	Criminal Justice: Juvenile Justice	Criminology and Criminal Justice
CJL	Criminal Justice: Law and Process	Criminology and Criminal Justice
CJT	Criminal Justice Technology	Criminology and Criminal Justice
CLA	Classical and Ancient Studies	Classical Languages, Literature, and Civilization History
CLP	Clinical Psychology	Psychology
CLT	Classical Literature in Translation	Classical Languages, Literature, and Civilization

COA	Consumer Affairs	Family and Child Sciences Textiles and Consumer Sciences	EDM	Education: Middle School	Educational Leadership and Policy Studies
COM	Communication	Communication	EDP	Educational Psychology	Educational Psychology and Learning Systems Psychology
COP	Computer Programming	Computer Science	EDS	Education: Supervision	Educational Leadership and Policy Studies Elementary and Early Childhood Education
COT	Computer Theory	Computer Science	EEC	Education: Early Childhood	Elementary and Early Childhood Education
CPO	Comparative Politics	Political Science	EED	Education: Emotional Disorders	Special Education
CPS	Comparative Policy Studies	Social Science	EEL	Electrical Engineering	Electrical and Computer Engineering
CRW	Creative Writing	English	EES	Environmental Engineering Science	Civil and Environmental Engineering
CTE	Clothing and Textiles	Textiles and Consumer Sciences Interior Design	EEX	Education: Exceptional Child—Core Competencies	Special Education
CWR	Civil Water Resources	Civil and Environmental Engineering	EGI	Education: Gifted Child	Special Education
CYP	Community Psychology	Psychology	EGM	Engineering Mechanics	Mechanical Engineering
CZE	Czech Language	Modern Languages and Linguistics	EGN	General Engineering	Civil and Environmental Engineering
DAA	Dance Activities	Dance Sport Management, Recreation Management and Physical Education	EGS	Engineering Graphics	Industrial Engineering
DAE	Dance Education	Dance Sport Management, Recreation Management and Physical Education	EIN	Industrial Engineering	Industrial Engineering
DAN	Dance	Dance	ELD	Education: Specific Learning Disabilities	Special Education
DEM	Demography	Sociology	EMA	Materials Engineering	Mechanical Engineering Industrial Engineering
DEP	Developmental Psychology	Psychology	EME	Education: Technology and Media	Educational Leadership and Policy Studies Educational Psychology and Learning Systems
DIE	Dietetics	Nutrition, Food and Exercise Sciences	EML	Mechanical Engineering	Mechanical Engineering
EAB	Experimental Analysis of Behavior	Psychology	EMR	Education: Mental Retardation	Special Education
EAP	English as a Second Language for Academic Purposes	English Middle and Secondary Education	ENC	English Composition	English
EAS	Aerospace Engineering	Mechanical Engineering	ENG	English: General	English
ECH	Chemical Engineering	Chemical Engineering	ENL	English Literature	English
ECO	Economics	Economics	ENV	Environmental Engineering	Civil and Environmental Engineering
ECP	Economic Problems and Policy	Economics Finance	EPH	Education: Physical and Multiple Handicaps	Special Education
ECS	Economic Systems and Development	Economics	ESE	Education: Secondary	Educational Leadership and Policy Studies
EDA	Education: Administration	Educational Leadership and Policy Studies	ESI	Industrial Engineering	Industrial Engineering
EDE	Education: Elementary	Elementary and Early Childhood Education	EUH	European History	Classical Languages, Literature, and Civilization History
EDF	Education: Foundations	Educational Leadership and Policy Studies Educational Psychology and Learning Systems Middle and Secondary Education	EUS	Russian and East European Studies	Russian and East European Studies
EDG	Education: General	Educational Leadership and Policy Studies Educational Psychology and Learning Systems Middle and Secondary Education	EVI	Education: Visual Impairments	Special Education
EDH	Education: Higher	Educational Leadership and Policy Studies	EVT	Education: Vocational/ Technical	Educational Leadership and Policy Studies
			EXP	Experimental Psychology	Psychology

FAD	Family Development	Family and Child Sciences	HOE	Home Economics: General	Family and Child Sciences Textiles and Consumer Sciences
FIL	Film	Communication Modern Languages and Linguistics Motion Picture, Television, and Recording Arts	HSA	Health Service Administration	Middle and Secondary Education
FIN	Finance	Finance Multinational Business Operations	HSC	Health Education and Safety	Middle and Secondary Education Nutrition, Food and Exercise Sciences
FLE	Foreign Language Education	Middle and Secondary Education	HUM	Humanities	Humanities
FOL	Foreign and Biblical Languages	Modern Languages and Linguistics	HUN	Human Nutrition	Nutrition, Food and Exercise Sciences
FOS	Food Science	Nutrition, Food and Exercise Sciences	IND	Interior Design	Interior Design
FOT	Foreign and Biblical Languages in Translation	Modern Languages and Linguistics	INP	Industrial/Applied Psychology	Psychology
FOW	Foreign Writings	Modern Languages and Linguistics	INR	International Relations	International Affairs Political Science
FRE	French Language	Modern Languages and Linguistics	ISC	Interdisciplinary Natural Science	Biological Science Chemistry and Biochemistry Meteorology Oceanography Psychology
FRT	French Literature in Translation	Modern Languages and Linguistics	ISM	Information and Management Sciences	Management Information Systems
FRW	French Literature (Writings)	Modern Languages and Linguistics	ISS	Social Science: Interdisciplinary	Social Science
FSS	Food Service System	Hospitality Nutrition, Food and Exercise Sciences	ITA	Italian Language	Modern Languages and Linguistics
GEA	Regional Geography	Geography	ITT	Italian Literature in Translation	Modern Languages and Linguistics
GEB	General Business	Entrepreneurship and Small Business Management Marketing	ITW	Italian Literature (Writings)	Modern Languages and Linguistics
GEO	Systematic Geography	Geography	JPN	Japanese Language	Modern Languages and Linguistics
GER	German Language	Modern Languages and Linguistics	KOR	Korean Language	Modern Languages and Linguistics
GET	German Literature in Translation	Modern Languages and Linguistics	LAE	Language Arts and English Education	Elementary and Early Childhood Education English Middle and Secondary Education
GEW	General Literature (Writings)	Modern Languages and Linguistics	LAH	Latin American History	History
GLY	Geological Sciences	Geological Sciences	LAS	Latin American Studies	Latin American and Caribbean Studies
GRA	Graphic Arts	Art	LAT	Latin (Language Study)	Classical Languages, Literature, and Civilization
GRE	Greek (Language Study)	Classical Languages, Literature, and Civilization	LAW	Law	Law
GRW	Greek Literature (Writings)	Classical Languages, Literature, and Civilization	LEI	Leisure	Sport Management, Recreation Management and Physical Education
HBR	Hebrew (Modern)	Modern Languages and Linguistics Religion	LIN	Linguistics	Anthropology Communication Disorders English Middle and Secondary Education Modern Languages and Linguistics
HEE	Home Economics Education	Family and Child Sciences Textiles and Consumer Sciences	LIS	Library and Information Studies	Elementary and Early Childhood Education Information Studies
HFT	Hospitality, Food Tourism	Hospitality	LIT	Literature	English Humanities
HHH	Housing and Home Design	Textiles and Consumer Sciences			
HIS	History: General	History Humanities			

LNW	Latin Literature (Writings)	Classical Languages, Literature, and Civilization	MVK	Music: Applied—Keyboard	Music
MAA	Mathematics: Analysis	Mathematics	MVO	Music: Applied—Other Instruments	Music
MAC	Mathematics: Calculus/Precalculus	Mathematics	MVP	Music: Applied—Percussion	Music
MAD	Mathematics: Discrete	Mathematics	MVS	Music: Applied—Strings	Music
MAE	Mathematics Education	Elementary and Early Childhood Education Mathematics Middle and Secondary Education	MVV	Music: Applied—Voice	Music
MAN	Management	Finance Management Information Systems Management Marketing Multinational Business Operations	MVW	Music: Applied—Woodwinds	Music
MAP	Mathematics: Applied	Mathematics Meteorology Oceanography	NGR	Nursing: Graduate	Nursing
MAR	Marketing	Marketing Multinational Business Operations	NUR	Nursing	Nursing
MAS	Mathematics: Algebraic Structures	Mathematics	OCB	Oceanography: Biological	Oceanography
MAT	Mathematics	Mathematics	OCC	Oceanography: Chemical	Oceanography
MCB	Microbiology	Biological Science	OCE	Oceanography	Meteorology Oceanography
MET	Meteorology	Meteorology	OCG	Oceanography: Geological	Oceanography
MGF	Mathematics: General/Finite	Mathematics	OCP	Oceanography: Physical	Mathematics Meteorology Oceanography
MHF	Mathematics: History/Foundations	Mathematics	ORI	Oral Interpretation	Communication
MHS	Mental Health Services	Educational Psychology and Learning Systems Special Education	PAD	Public Administration and Policy	Public Administration and Policy
MMC	Mass Media Communication	Communication Educational Leadership and Policy Studies	PAX	Peace Studies	International Affairs
MOB	Molecular Biophysics	Molecular Biophysics	PCB	Process Biology	Biological Science
MSL	Military Science	Military Science Leadership	PCO	Psychology for Counseling	Educational Psychology and Learning Systems
MTG	Mathematics: Topology and Geometry	Mathematics	PEL	Physical Education Activities (General): Land—Object Centered	Sport Management, Recreation Management and Physical Education
MUC	Music: Composition	Music	PEM	Physical Education Activities (General): Land—Performance Centered	Sport Management, Recreation Management and Physical Education
MUE	Music: Education	Music	PEN	Physical Education Activities (General): Water, Snow, Ice	Oceanography Sport Management, Recreation Management and Physical Education
MUG	Music: Conducting	Music	PEO	Physical Education Activities (Professional): Land—Object Centered	Sport Management, Recreation Management and Physical Education
MUH	Music: History/Musicology	Music	PEP	Physical Education Activities (Professional): Land—Performance Centered	Sport Management, Recreation Management and Physical Education
MUL	Music: Literature	Music	PEQ	Physical Education Activities (Professional): Water, Snow, Ice	Sport Management, Recreation Management and Physical Education
MUM	Music: Commercial	Music	PET	Physical Education Theory	Educational Psychology and Learning Systems Elementary and Early Childhood Education Nutrition, Food and Exercise Sciences Sport Management, Recreation Management and Physical Education
MUN	Music: Ensembles	Music	PGY	Photography	Art
MUO	Music: Opera/Music Theatre	Music	PHH	Philosophy: History	Philosophy
MUR	Music: Church Music	Music	PHI	Philosophy	Philosophy Religion
MUS	Music	Music	PHM	Philosophy of Man and Society	Philosophy Political Science
MUT	Music: Theory	Music	PHP	Philosophers and Schools	Philosophy
MUY	Music: Therapy	Music	PHY	Physics	Physics
MVB	Music: Applied—Brasses	Music			
MVH	Music: Applied—Historical Instruments	Music			
MVJ	Music: Applied—Jazz	Music			

PHZ	Physics: Specialized	Physics	SDS	Student Development Services	Educational Leadership and Policy Studies Educational Psychology and Learning Systems
POR	Portuguese Language	Modern Languages and Linguistics	SEC	Serbo-Croatian Language	Modern Languages and Linguistics
POS	Political Science	Political Science Public Administration and Policy	SED	Speech Education	Communication
POT	Political Theory	Political Science	SLL	Slavic Language	Modern Languages and Linguistics
POW	Portuguese Literature (Writings)	Modern Languages and Linguistics	SOP	Social Psychology	Psychology
PPE	Psychology of Personality	Psychology	SOW	Social Work	Social Work
PRT	Portuguese Literature in Translation	Modern Languages and Linguistics	SPA	Speech/Language Pathology and Audiology	Communication Disorders
PSB	Psychobiology and Neuroscience	Biological Science Educational Psychology and Learning Systems Psychology	SPC	Speech Communication	Communication
PSC	Physical Science	Chemistry and Biochemistry Geological Sciences Meteorology Oceanography	SPN	Spanish Language	Modern Languages and Linguistics
PSY	Psychology	Psychology	SPS	School Psychology	Educational Psychology and Learning Systems Psychology
PUP	Public Policy	Political Science	SPT	Spanish Literature in Translation	Modern Languages and Linguistics
PUR	Public Relations	Communication	SPW	Spanish Literature (Writings)	Modern Languages and Linguistics
QMB	Quantitative Methods in Business	Finance Management Information Systems Marketing Statistics	SSE	Social Studies Education	Elementary and Early Childhood Education Middle and Secondary Education
RCS	Rehabilitative Counseling Services	Special Education	STA	Statistics	Statistics
RED	Reading Education	Elementary and Early Childhood Education	SYA	Sociological Analysis	Sociology
REE	Real Estate	Risk Management/ Insurance and Real Estate	SYD	Demography and Area Studies	Political Science Sociology
REL	Religion	Religion	SYG	Sociology: General	Sociology
RMI	Risk Management/Insurance	Risk Management/ Insurance and Real Estate	SYO	Social Organization	Sociology
RTV	Radio-Television	Communication	SYP	Social Processes	Sociology Educational Psychology and Learning Systems
RUS	Russian Language	Modern Languages and Linguistics	TAX	Tax Accounting	Accounting
RUT	Russian Literature in Translation	Modern Languages and Linguistics	THE	Theatre	Theatre
RUW	Russian Literature (Writings)	Modern Languages and Linguistics	TPA	Theatre Production and Administration	Theatre
SAL	Sanskrit	Religion	TPP	Theatre Performance and Training	Theatre
SCE	Science Education	Biological Science Chemistry and Biochemistry Elementary and Early Childhood Education Meteorology Middle and Secondary Education	TSL	Teaching English as a Second Language	Middle and Secondary Education
SCW	Serbo-Croatian Literature (Writings)	Modern Languages and Linguistics	TTE	Transportation and Traffic Engineering	Civil and Environmental Engineering
			URP	Urban and Regional Planning	Urban and Regional Planning
			URS	Urban and Regional Studies	Urban and Regional Planning
			WOH	World History	History
			WST	Women's Studies	Women's Studies
			ZOO	Zoology	Biological Science

ACADEMIC DEPARTMENTS AND PROGRAMS

Department of ACCOUNTING

COLLEGE OF BUSINESS

Chair: Bud Fennema; *Andersen Professor:* Hillison; *Deloitte and Touche Professor:* Morton; *Ernst and Young Professor:* Fennema; *KPMG Professor:* Reimers; *Professors:* Hasselback, Hillison, R.C. Icerman, Reimers; *Associate Professors:* Bathke, Billings, Dunn, Dusenbury, Fennema, J.D. Icerman, Morton, Paterson; *Assistant Professors:* Dee, Durtschi, Gerard, Lulseged, Rai; *Service Professor:* Jordan; *Lecturers:* Pierno, Sudano

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, 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. Other essential skills include the ability to communicate well verbally and in writing, the ability to work well with and motivate others, the ability to organize and manage tasks and other people, and the ability to 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 non-profit 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 plan to complete the four-year undergraduate program followed by the one-year master of accounting (MAcc) program. The MAcc program allows students to specialize in one of the following areas: assurance services, corporate accounting, accounting information systems, or taxation. A detailed description of the MAcc program can be found in the *Graduate Bulletin*.

Students planning to sit for the Certified Public Accountants Examination in the state of Florida must complete a five-year education program (150 semester hours) with a concentration in accounting. Completion of the MAcc program satisfies this requirement.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071 (not required of students majoring in accounting at The Florida State University);
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

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. To be eligible to pursue an accounting major, students must meet the admission requirements of 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 four (4) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth

All accounting majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
ISM	3011	Introduction to Management Information Systems (3).
QMB	3200	Quantitative Methods for Business Decisions (3).

Plus two (2) electives from the following list of courses:

HFT	3240	Managing Service Organizations (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All accounting majors must complete the ten (10) courses listed below. In addition, accounting majors must complete a total of ninety (90) semester hours of non-accounting courses.

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 with a grade of "B-" or better. A grade of "C-" or better must be earned in all required upper-level accounting courses and BUL 3330.

ACG	3101	Financial Accounting and Reporting I (3).
ACG	3111	Financial Accounting and Reporting II (3).
ACG	3341	Cost Accounting I (3).

ACG 3351	Cost Accounting II (3).
ACG 4201	Financial Accounting and Reporting III (3).
ACG 4401	Accounting Information Systems (3).
ACG 4632	Auditing Theory and Application I (3).
BUL 3330	Law for Accountancy (4).
BUL 3350	U.C.C. Business Law Problems (3).
TAX 4001	Federal Tax Accounting I (3).

Definition of Prefixes

ACG	— Accounting
TAX	— Tax Accounting

Undergraduate Courses

Note: to register for any accounting course, students must have completed all prerequisite courses with appropriate grades.

ACG 2021. Introduction to Financial Accounting (3). Introduction to financial accounting concepts. Financial statements and how they reflect business transactions are emphasized.

ACG 2071. Introduction to Managerial Accounting (3). Prerequisite: ACG 2021 with a grade of “C–” or better. An introduction to managerial accounting concepts. Credit not allowed for accounting majors.

ACG 3101. Financial Accounting and Reporting I (3). Prerequisite: ACG 2021 with a grade of “B–” or better. In-depth study of financial reporting concepts and generally accepted practice including an overview of the accounting cycle assets and noncurrent assets. Emphasis 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. In-depth study of financial reporting concepts and generally accepted practice for long-term liabilities, leases, pensions, income taxes, and stockholders equity and earnings per share. Emphasis on analyzing financial events and the consequences of financial reporting alternatives.

ACG 3171. Analysis of Financial Statement Presentation (3). Prerequisite: ACG 2021 with a grade of C– or better. Analysis of the assumptions and procedures underlying financial statements. The impact of accounting policies on the use of the financial disclosures made by business enterprises. Credit not allowed for accounting majors.

ACG 3331. Cost Accounting and Analysis for Business Decisions (3). Prerequisite: ACG 2071 with a grade of C– or better. Study of techniques of cost accounting and cost analysis for various business decisions. Credit not allowed for accounting majors.

ACG 3341. Cost Accounting I (3). Prerequisites: ACG 2021 with a grade of “B–” or better; MAC 2233. Planning and control of economic entities through cost-volume-profit rela-

tionships, job order, process and standard cost accounting. The relationship of accounting systems to decision making is emphasized.

ACG 3351. Cost Accounting II (3). Prerequisites: ACG 3341 with a grade of “C–” or better; QMB 3200. Planning and control of economic entities through direct and relevant costing, inventory management, decentralized operations, capital budgeting, and quantitative techniques. The relationship of accounting systems to decision making is emphasized.

ACG 3949. Cooperative Education Work Experience (0). (S/U grade only.)

ACG 4201. Financial Accounting and Reporting III (3). Prerequisites: ACG 3111 with a grade of “C–” or better; CGS 2100. In-depth study of financial reporting concepts and generally accepted practice for investments, business combinations, consolidated enterprises, and foreign operations and the statement of cash flows. Emphasis on analyzing financial event and the consequences of financial reporting alternatives.

ACG 4401. Accounting Information Systems (3). Prerequisites: ACG 3101 with a grade of “C–” or better; CGS 2100. An introduction to manual and computerized accounting information systems. Transaction cycles, internal controls, and flowcharting are emphasized.

ACG 4501. Accounting for Governmental and Not-for-Profit Entities (3). Prerequisite: ACG 3111 with a grade of “C–” or better. Pre- or Corequisite: ACG 4201. An introduction to fund accounting procedures and financial reporting requirements for governmental units and not-for-profit entities.

ACG 4632. Auditing Theory and Application I (3). Prerequisites: ACG 3111 and 4401 with grades of “C–” or better. 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. Theory of auditing and development of audit programs; 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 4901r. Directed Individual Study (1–3). May be repeated up to five times.

ACG 4930r. Special Topics in Accounting (1–3). Prerequisite: Permission of instructor. Content varies to provide an opportunity to study current issues in accounting and topics not offered in other courses. May be repeated with a change in content to a maximum of twelve (12) semester hours.

ACG 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. Six (6) semester hours of thesis are required to complete honors in the major. May be repeated to a maximum of nine (9) semester hours.

TAX 4001. Federal Tax Accounting I (3). Prerequisites: ACG 3101 with a grade of “C–” or better. Concepts and methods of determining income of individuals for tax purposes; 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. Concepts and methods of determining income of corporations, partnerships, estates, and trusts for tax purposes; interpretation of the Internal Revenue Code, related regulations, and tax advisory services. Subsequent credit for TAX 5015 is not permitted.

Graduate Courses

ACG 5005.	Accounting Concepts: Introductory (3).
ACG 5135.	Financial Accounting Theory and Standard Setting (3).
ACG 5308.	Accounting Concepts for Managerial Control (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 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 6845.	Seminar in Analytical Research (3).
ACG 6885.	Introduction to Accounting Research (3).
ACG 6895.	Seminar in Capital Market Based Accounting Research (3).
ACG 6916r.	Supervised Research (1–3). (S/U grade only.)
ACG 6939r.	Doctoral Seminar in Accounting (3).
ACG 6946r.	Supervised Teaching (1–3). (S/U grade only.)
TAX 5015.	Federal Tax Accounting II (3).
TAX 5065.	Research in Federal Taxation (3).
TAX 5105.	Seminar in Corporate Income Taxation (3).
TAX 5205.	Seminar in Partnership Taxation (3).
TAX 5405.	Seminar in Federal Taxation of Estates and Gifts (3).
TAX 5875r.	Special Topics in Taxation (1–3).

Program in ACTUARIAL SCIENCE

COLLEGE OF ARTS AND SCIENCES

Director: Bettye Anne Case (Mathematics); *Advisory Committee:* Beaumont, Cobbe (Economics); Carson, Maroney (Risk Management/Insurance); Hollander, Leysieffer (Statistics); Icerman (Accounting); Nast (Finance)

This interdisciplinary degree provides broad instruction in the mathematical and statistical concepts underlying the operations of life, pension, property and casualty insurers, governmental agencies, consulting 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, statistics. It is the only bachelor's degree program in actuarial science in a Florida university, and it is classified by the professional actuarial societies as advanced undergraduate and graduate education.

Students in the program are assisted in moving forward professionally by tutorials which are provided to assist their preparation for national actuarial examinations, and by guest lecturers who

are actuaries discussing the varied available employment. For statewide common course prerequisites and curriculum information, please see the "Department of Mathematics" chapter in this *General Bulletin*.

**ADULT EDUCATION:
see Educational Leadership
and Policy Studies**

**ADVERTISING:
see Communication**

**AEROSPACE ENGINEERING:
see Mechanical Engineering**

Department of AEROSPACE STUDIES

AIR FORCE ROTC

COLLEGE OF ARTS AND SCIENCES

Professor: Colonel Thomas C. Bowermeister; *Assistant Professors:* Captain Bailey, Captain McElroy

The Department of Aerospace Studies provides precommissioning education for qualified students who desire to serve on active duty as commissioned officers in the United States Air Force. The department offers one-year, two-year and four-year commissioning programs, each with its own requirements and advantages. The one-year college program is designed for students who meet particularly critical needs of the Air Force. The two-year program allows transfer students and other high-quality students with two academic years remaining, either in undergraduate or graduate status, and who have met the five (5) required qualifications, to obtain an Air Force commission while completing their studies. The four-year program provides on-campus study during the freshman through senior years. The aerospace studies curriculum is divided into two phases: 1) the general military course; and 2) the professional officer course. Students are invited to email, visit, call the Department of Aerospace Studies, (850) 644-3461, or visit our web page at <http://www.fsu.edu/~rotc> to obtain additional information.

General Military Course

This program of instruction is open to any student and consists of the first- and second-year courses for students in the four-year Air Force Reserve Officer Training Corps (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 students enrolled in the AFROTC program.

Professional Officer Course

Aerospace studies courses offered during the third and fourth years must be completed by all students who seek a commission through AFROTC. Coursework continuity is 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 communicative skills. Students entering this course must be selected in accordance with the prerequisites listed below. 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/TCC students enrolled in the AFROTC program

Required Admission Criteria for Air Force ROTC

1. Pass the Air Force Officer Qualifying Test;
2. Pass a military physical examination;
3. Pass the three-event physical fitness test;
4. Pass height/weight standards;
5. Have a 2.5 GPA or higher.

Note: these must be completed satisfactorily **before** consideration for financial assistance can occur.

Leadership Laboratory

Leadership laboratory is required for members of the Reserve Officer Training Corps, or students who are eligible to pursue a commission as determined by the chairman of the Department of Aerospace Studies. Leadership laboratory is the formalized phase of leadership training conducted by the cadets. It is scheduled for up to two (2) hours each week. All uniforms and equipment required for cadet activities are furnished.

Monetary Allowances

Once the admission criteria have been met, the student may compete for the opportunity to contract for four years of active duty as a commissioned officer upon graduation. Upon selection and acceptance, the student receives a monthly, tax-exempt stipend ranging from \$250.00–\$400.00. Tuition assistance is possible but not guaranteed. It is awarded on a competitive basis.

AFROTC College Scholarship Programs

Financial assistance may be available in the form of AFROTC **academic scholarships**. Under this program, the Air Force pays for full tuition and fees and provides an allowance for books, supplies, and equipment. Scholarships may be awarded for up to three and one-half (3.5) years. Four-year scholarships must be applied for by December 1st in the year prior to enrollment as a freshman. Other scholarships are available after enrolling in aerospace studies courses. Scholarships are available for students attending Florida A&M University (FAMU), a historically black university, if the student has a 2.50 or higher cumulative GPA.

Field Training

Cadets in the two-year program must complete a six-week field training course before they may formally enroll in the professional officer course. This course includes career training, physical conditioning, and the general military course academics. Academic credit for up to four (4) semester hours may be given for cadets attending a six-week field training and who have not previously completed AFR 1101, 1102, 2130, and 2140. See the Professor of Aerospace Studies for further information and to apply for the credit.

Cadets enrolled in the four-year AFROTC program are required to attend a four-week field training course before they may formally enroll in the professional officer course. Field training provides a better understanding of the United States Air Force mission, increases the cadets' proficiency in junior officer training areas, and stresses the importance of physical conditioning.

All field training courses are conducted at active Air Force bases. Students attending these courses receive pay for the encampment plus travel allowances.

Officer Commissions

Upon graduation from the University, cadets who complete the professional officer course are commissioned as Second Lieutenants in the United States Air Force. As graduates they incur an obligated active duty tour of four years for nonflyers, eight years for navigators, and ten years for pilots.

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 (12) semester hours in aerospace studies courses.

Oral Communications Competency

The 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. Successfully complete (grade of "C-" or better) the verbal presentation portion of three AFR courses.
2. Apply to the department office assistant for award of the competency. Students should be advised that application alone does not guarantee that credit towards the completion of the oral communication competency requirement will be awarded. All applications must be reviewed prior to graduation.
3. All courses completed beginning with the Spring 1998 semester are eligible for consideration.

Note: students not currently enrolled in the 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 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.

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 the FSU—FAMU—TCC AFROTC Silver Eagles Drill Team, an armed precision drill unit. Students who desire to fly can participate in a flying program with the Florida Civil Air Patrol.

Awards and Decorations

Awards and decorations, made available by national organizations, The Florida State University, and local/national military organizations, are presented to both general military course and professional officer course 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 — Air Force ROTC

Undergraduate Courses

AFR 1101. USAF Strategic Forces (1). This course deals with the Air Force structure as well as traditions behind customs and courtesies, and team building skills.

AFR 1102. USAF General Purpose and Support Forces (1). This course is a continuation of AFR 1101.

AFR 2130. Development of Airpower I (1). This course, along with AFR 2140, is a study of airpower from balloons and dirigibles through the jet age, a historical review of airpower employment in military and nonmilitary operations in support of national objectives, and a look at the evolution of airpower concepts and doctrine.

AFR 2140. Development of Airpower II (1). This course is a continuation of AFR 2130.

AFR 2233L. AFROTC Leadership Lab (0). (S/U grade only.) For AFROTC cadets only.

AFR 2940. Basic Aerospace Internship (4). (S/U grade only.) (AFROTC Field Training.) Prerequisites: selection for the two-year AFROTC program and permission of the professor of aerospace studies.

AFR 3201. Air Force Management (3). This course is the initial semester of a study of leadership and management fundamentals. Material deals with general managerial and leadership concepts and theories and relates them to the Air Force junior officer. A block on communicative skills is included in this course.

AFR 3202. Air Force Junior Officer Leadership (3). Continuation of the study of leadership and management begun in AFR 3201.

AFR 4211. U.S. Defense Policy and Strategy Formulation (3). Prerequisite: AFR 3202. This course, along with AFR 4212, includes an examination of the need for national security, analysis of the evolution of the American defense strategy and policy and of the methods for managing conflicts, and a study of the formulation of American defense policy and strategy.

AFR 4212. Preparation for Active Duty (3). Prerequisite: AFR 4211. Continuation of AFR 4211.

Note: if stated prerequisites are not met, permission of the professor of aerospace studies is prerequisite to all courses.

**AFRICAN HISTORY:
see African-American Studies;
History**

**AFRO-AMERICAN STUDIES:
see African-American Studies**

Program in AFRICAN-AMERICAN STUDIES

COLLEGE OF SOCIAL SCIENCES

Director: Dr. Patrick L. Mason

The African-American Studies program is an interdepartmental and interdisciplinary study of the history, culture, and socio-economic well-being of African-Americans. Knowledge and research methods drawn from several disciplines enable students to enhance their understanding of African-Americans' unique social circumstances and heritage, and acquire a deeper comprehension of the history and culture of the nation as a whole.

Requirements for a Minor in African-American Studies

The program minor requires the completion of fifteen (15) semester hours. Specific requirements are as follows: 1) AFA 3101 Theory and Dynamics of Racism and Oppression, or AFA 2000 Introduction to the Afro-American Experience, three (3) semester hours; 2) SOP 3782 Psychology of the Afro-American, three (3) semester hours; 3) subject to departmental prerequisites, at least six (6) semester hours selected from core courses; and 4) the remaining three (3) semester hours to be selected from special topics seminars, directed individual studies (DIS) in approved disciplines, or approved courses not previously chosen to fulfill the core requirements.

Freshmen and sophomore students who intend to minor in African-American studies should declare this intention with the dean of their college or

school and their department advisor. Junior and senior students should notify their respective academic deans.

Definition of Prefix

AFA — African American Studies

Core Courses

These courses will count for the minor in African-American Studies Program.

AFA 2000. Introduction to the African-American Experience (3). An interdisciplinary examination of African-American culture and socio-economic status. This course also explores elements of the African Diaspora.

AFA 3101. Theory and Dynamics of Racism and Oppression (3). A conceptual, institutional, and historical analysis of the operation and inner logic of racism and oppression.

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 ex-

aming 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 3395. Cultural Pluralism and Community Service (3). This course presents students a theoretical framework for evaluating effective community service strategies, especially in response to the needs of African-American clients.

AFA 3930r. Special Topics (1-3). Varies with instructor, and semester. May be repeated to a maximum of nine (9) semester hours.

AFA 4905r. African American Studies Directed Individual Study (1-4). May be repeated during the same semester.

Other 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.

Note: descriptions of the following courses can be found under the individual departments in which they are taught.

AFH 1000. African History and Civilization (3).

AFH 3451. Sub-Sahara Africa Since 1800 (3).

AMH 1091. The African-American Experience in the United States (3).

AMH 2096. Black Women in America (3).

AMH 4571. Black America to 1877 (3).

AMH 4572. Black America Since 1877 (3).

AML 2600. Introduction to African-American Literature (3).

AML 3682. American Multi-Ethnic Literature (3).

AML 4604. African-American Literary Traditions (3).

ARH 2521C. Survey in African-American Art and Aesthetics (3).

ARH 4118. Archaeology of Ancient Egypt (3).

ARH 4523. West African Art and the Diaspora: Brazil, Haiti, The United States and Suriname (3).

ARH 4583. The Arts of Oceania, Africa and Native America (3).

CCJ 4662. Minorities, Crime, and Social Policy (3).

DAN 4935r. Special Topics in Dance (1-3).

ECP 3143. Afro-Americans in the American Political Economy (3).

ECP 4613. Urban Economics (3).

FRW 4770. Black Literature of French Expression (3).

HIS 4930r. Special Topics in History (3).

LIT 4329. African American Folklore (3).

MUH 3053. Minority Musics in North America (3).

MUH 4801. History of Jazz I (2).

MUH 4802. History of Jazz II (2).

MUL 4931r. Special Topics in Music Literature (1-3).

MUT 2641r. Jazz Improvisation I (1).

PAD 4414. American Public Service (3).

POS 3142. Urban Politics (3).

POS 4624. The Supreme Court, Civil Liberties, and Civil Rights (3).

POT 3502. Politics and Ethics (3).

REL 3375. Afro-Caribbean Religions (3).

REL 3936r. Special Topics in Religion (1-3).

REL 4190r. Undergraduate Religion and Culture Seminar (3).

SOP 3782. Psychology of the African-American (3).

SOW 4622. Social Work with Black Families (3).

SOW 4627. Mental Health of Diverse Populations (3).

SOW 4935r. Seminar in Social Work: Selected Topics (3).

SPC 4634. Rhetoric of Race Relations (3).

SPC 4651r. Rhetoric of Contemporary Issues (3).

SPC 4710. Interracial/Intercultural Communication (3).

SYD 3600. The Community in Urban Society (3).

SYD 4700. Race and Minority and Group Relations (3).

THE 4233. History of African-American Drama (3).

THE 4433. Gender, Race and Performance (3).

THE 4935r. Selected Subjects in Theatre Studies (3).

URP 4741. Introduction to Issues in Housing and Community Development (3).

URP 4936r. Special Topics in Urban and Regional Planning (Neighborhood Planning) (3).

Note: courses are available at Florida Agricultural and Mechanical University (FAMU) that may transfer to the Florida State University program in African American Studies. Please see department for details and a list of approved courses.

Certificate Program in the PEPPER INSTITUTE ON AGING AND PUBLIC POLICY

COLLEGE OF SOCIAL SCIENCES

Director: Melissa Hardy (Sociology); *Mildred and Claude Pepper Eminent Scholar Chair:* Quadagno (Sociology); *Professors:* Charness (Psychology), Cowart (Urban and Regional Planning), Hardy (Sociology), Taylor (Sociology); *Associate Professor:* Bourgeois (Communication Disorders); *Assistant Professors:* Barrett, Reynolds (Sociology); *Affiliates:* Barrilleaux, Brooks, Ebner, Ferris, Fournier, Heron, Hinterlong, LaPointe, Licht, MacPherson, Miles, Ouimet, Pantan, Ralston, Serow, Shepherd, Toole, Vinton

The Pepper Institute on Aging and Public Policy has a multidisciplinary focus and plays a coordinating and facilitating role for the work in all academic units with interests in aging and social policy. As an internationally recognized site of multidisciplinary research, the institute reflects many of the strengths of The Florida State University. Through the College of Social Sciences, the Pepper Institute now offers a Master's Degree in Aging Studies. The institute supports a rigorous research program that mirrors the interests of faculty and their contributions to health

policy, health care and health financing; retirement, pensions and income inequality; family structure, care-giving and end-of-life issues; social welfare policy and the special concerns of older women and minority group members. The institute also sponsors an exceptional educational outreach program for mature adults, the *Academy at FSU*. As part of the broader University community, the Pepper Institute seeks to teach each new generation the importance of learning as a life-long activity and the value of service to others. The Pepper Institute offers an undergraduate and graduate Certificate in Aging Studies that can be completed by any student in the university. Application to the program is made to the Pepper Institute on Aging and Public Policy. For more information contact: *slampman@mailers.fsu.edu*.

Requirements for the undergraduate Certificate in Aging Studies include a three (3) semester hour internship (ISS 4944r, Practicum in Aging Studies) enabling students to gain experience in a setting associated with services for the elderly and the completion of an additional nine (9) semester hours of course work in aging from the list of approved courses.

Selected Course Offerings

AMS 3932r. Lecture Series in American Problems [Aging of America] (3-6)

DEP 4404. Psychology of Aging (3) [Prerequisite: PSY 2012]

ECP 3530. Economics of Health (3)

ECP 4160. Economics of Aging (3)

HFT 3272. Senior Services Management (3)

ISS 4931. Special Topics [Aging Studies] (1-3)

ISS 4944r. Internship [Practicum in Aging Studies] (3-6)

PET 4076. Physical Dimensions of Aging (4)

PSB 4641. Pain and Suffering (3)

PSY 4930r. Special Topics In Psychology [Successful Aging] (3)

RCS 4930r. Special Topics in Rehabilitation Counseling [Social Psychology of Aging] (1-4)

REL 3191. Death and Dying (3)

SOW 4645. Aging and Old Age: Social Work with the Aged (3)

SOW 4935r. Seminar in Social Work: Selected Topics [Aging] (3)

SPA 4411. Acquired Language Disorders (3)

SYP 3730. Aging and The Life Course (3)

URP 4523. Introduction to Health Planning (3)

URP 4531. Policy and Planning for the Aged (3)

Other opportunities for concentrated study in aging are available by earning a minor in aging in conjunction with another discipline. The institute also offers a Master's Degree in Aging Studies as well as a graduate Certificate in Aging Studies. For details, please refer to the *Graduate Bulletin*.

**AIR FORCE ROTC:
see Aerospace Studies**

Program in AMERICAN AND FLORIDA STUDIES

COLLEGE OF ARTS AND SCIENCES

Director: John Fenstermaker (English); *Advisory Committee:* Bearor (Art History), Green (History), Jumonville (History), Lhamon (English), Moore (English), Rowe (English)

American studies is concerned with the culture of the United States studied from cross-disciplinary interdepartmental perspectives. The aim of the program is toward enlarged dimensions of awareness rather than toward further refinements of disciplinary analysis. A wide variety of courses is available from many departments. The flexibility of the program gives students an opportunity to develop a curriculum commensurate with their own interests and needs.

In addition, students may focus on Florida Studies, that is, on "Florida in the Americas." The same cross-disciplinary mode of study is utilized to interpret the "Florida experience," in the context of the way(s) Florida has been perceived by Americans, past and present.

Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Major

Thirty (30) semester hours distributed in a way satisfactory to both the student and the director, not including courses used to satisfy liberal studies requirements. All students are required to take at least nine (9) semester hours in American studies courses, including a special topics course, and at least three (3) semester hours in each of the areas listed below. No more than twelve (12) semester hours in any one area may be counted toward the major. The areas of study are literature, history, fine arts, and social sciences. Any course in the University which deals primarily with the United States may be included under one of these

areas. Interested students may obtain a list of courses generally used in the program from the director. In addition students must complete an approved minor—at least twelve (12) hours in an approved minor field.

Honors in the Major

American studies 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 Program and Honor Societies" chapter of this *General Bulletin*.

Graduate Certificate Program

The program now offers a graduate certificate in American and Florida Studies. This certificate gives graduate students at both the MA and PhD levels in other disciplines, particularly those in the American Studies core areas, an opportunity through interdisciplinary study to develop a deeper understanding of the pluralistic society they inhabit and to learn new ways to conceptualize social issues, culture, and art throughout American history.

The certificate program in American and Florida studies requires twelve (12) semester hours in at least three disciplines outside the student's department and must include at least one AMS seminar. Ordinarily, students will select courses from a recommended list available from the American and Florida Studies office. Each student's final program of study must be approved by the director.

Minor

The minor in American and Florida Studies offers an excellent complement to a major in humanities, the social sciences, and fine arts. The minor requires AMS 3310, Changing Concepts of the American Character, and AMS 3810, The Life of the Mind in America, plus six (6) semester hours approved by the director in history, literature, fine arts, or social sciences.

Definition of Prefix

AMS — American and Florida Studies

Undergraduate Courses

AMS 1363r. Issues in American Civilization: The University (1–2). (S/U grade only.)

AMS 3310. Changing Concepts of the American Character (3). A study of American culture and values.

AMS 3364. The Liberal Arts Tradition (2). A survey of the origins, values, and rationale for the liberal arts. Students who receive credit for AMS 1363 are ineligible for enrollment.

AMS 3810. The Life of the Mind in America (3). This course addresses topics in American intellectual history.

AMS 3932r. Lecture Series in American Problems (3–6). May be repeated to a maximum of six (6) semester hours.

AMS 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

AMS 4905r. Directed Individual Study (1–3). May be repeated to a maximum of eight (8) semester hours.

AMS 4913r. Honors Work (1–6). May be repeated to a maximum of nine (9) semester hours.

AMS 4935. Senior Seminar (3).

AMS 4941r. Internship in an Approved American Studies Field (3–9). (S/U grade only.) Must have completed one full semester of major courses [twelve (12) credit hours or more] before registering for internship. May be repeated to a maximum of nine (9) semester hours.

Graduate Courses

AMS 5809r. Seminar in American Culture (3).

AMS 5815r. Seminar in American Thought (3).

AMS 5908r. Directed Individual Study (1–3).

AMS 5915r. Supervised Research (1–3). (S/U grade only.)

AMS 5940r. Supervised Teaching (1–3). (S/U grade only.)

AMS 5942r. Internship in an Approved American Studies Field (3–9). (S/U grade only.)

For listings relating to graduate course work for thesis, dissertation, and masters examination and defense, consult the *Graduate Bulletin*.

Department of ANTHROPOLOGY

COLLEGE OF ARTS AND SCIENCES

Chair: Dean Falk; *Professors:* Doran, Falk, Grindal, Pohl; *Associate Professors:* Ho, Josserand, Marrinan, Peters; *Assistant Professors:* Faught, Parkinson, Uzendoski, Ward; *Professor Emeritus:* Paredesi; *Courtesy Professors:* Anderson, Fischer, Keel, McEwan, Purdum, G. Smith, R. Smith; *Adjunct Professors:* Gardner, Harmon, Hopkins, Stojanowski; *Professor Emeritus:* Paredes; *Courtesy Professors:* Anderson, Fischer, Keel, McEwan, Purdum, G. Smith, R. Smith

Anthropology is the science of 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 subdisciplines. Cultural anthropologists live among and study contemporary peoples, their social institutions, and the creative products of their social lives. 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 living primates; the fossil record of primates and early humans; comparative anatomy and osteology; forensic anthropology; and the evolutionary and biological bases for cognition and culture in

humans. Anthropological linguists study the evolution and structure of human language and the relationships between language, culture, and society.

The department offers work leading to the baccalaureate, the master of arts (MA), the master of science (MS), and the PhD.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and

click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Two introductory courses for six (6) semester hours in anthropology (ANT prefix). See the department for details.

Requirements for a Major in Anthropology

Please review all college-wide requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Major

Thirty (30) semester hours in the department are required including the following: ANT 2410, 2511, 3101, 3610, and fifteen (15) semester hours of work at the 4000 level. No more than three (3) 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 (15) semester hours of work at the 4000 level, except upon approval of a petition to the department chair. LIN 4030 and 4040 may be counted as equivalents of courses designated as ANT for purposes of completing the undergraduate major requirement of thirty (30) semester hours in the department, but no more than three (3) semester hours of LIN courses will be counted toward completion of the specific requirement of fifteen (15) semester hours of work at the 4000 level. No anthropology course for which the student receives a grade of "D" or lower may be counted toward satisfaction of the major requirements.

Minor

Twelve (12) semester hours in a related field.

Honors

The Department of Anthropology 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 Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Anthropology

Twelve (12) semester hours to include either ANT 2410 or 2511.

Definition of Prefixes

ANT — Anthropology
LIN — Linguistics

Undergraduate Courses

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 WW II. From *Titanic* to treasure ships, this global survey explores economy, technology, and society.

ANT 2410. Introduction to Cultural Anthropology (3). Origin and development of human lifeways with emphasis on non-Western societies. A comparative perspective is used to examine technology, language, social organization, religion, and values. Attention is also given to contemporary world problems.

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 2511L. Introduction to Physical Anthropology and Prehistory Laboratory (1). Corequisite: ANT 2511. This laboratory provides students an opportunity to observe, handle, and measure archaeological artifacts, skeletal material, and copies of important fossil hominids. Weekly exercises strengthen students' understanding of the scientific procedures used to interpret the nature and causes of human evolution.

ANT 3101. Fundamentals of Archaeology (3). This fundamentals 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 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). A survey of the world's known 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 mankind. Lectures, readings, and visual materials are utilized.

ANT 3231. Introduction to Folklore (3). This course introduces students to the basic concepts, functions, theories, and methods of folklore. Major genres of folklore, such as myth, legends, folktales, proverbs, games, dance, drama, riddles, and folk arts and crafts will be given detailed analysis by using examples from cultures around the world.

ANT 3610. Language and Culture (3). An introduction to and examination of human language, its relation to perception and cognition, and its role in social interaction. This will include verbal as well as nonverbal communication modes, their variety and complexity, the evolution of language, and language change.

ANT 4034. History of Anthropology (3). This is a survey course for majors which reviews the development of the central ideas that have shaped the emergence of anthropology as a science. The approach is critical and objective, and while the presentation is somewhat chronological, the emphasis is to evaluate the scope and limitations of modern theories.

ANT 4082. Technology and Social Change (3). This course introduces students to anthropological approaches to the study of technology. The goal is to explore the systemic relationship between technological developments and economics, politics, and social structure both in the past and present.

ANT 4125. Paleonutrition (3). Methods in reconstruction of past economic behavior/diet. Includes lab work in identification/analysis of faunal remains.

ANT 4126. Geoarchaeology (3). Designed in a seminar style, this class presents a wide range of pertinent archaeological issues including sedimentology, stratigraphy and soil development and description. Alluvial aeolian, karstic, cave, coastal, and other geological environments are reviewed.

ANT 4131. Techniques of Underwater Site Research (6). Prerequisite: PEN 1136. A classroom and field introduction to the techniques of underwater research in marine sciences, with a focus on archaeology.

ANT 4133. Introduction to Underwater Archaeology (3). 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 4134. Nautical Archaeology of the Americas (3). Students will study human interaction with bodies of water, particularly in the maritime environment. Illustrated presentations, readings, and discussions focus on a variety of cultures and watercraft built or used in the Americas.

ANT 4135. Nautical Archaeology: Global View (3). In this course, students will study human interaction with bodies of water, particularly in the maritime environment. Illustrated presentations, readings, and discussions focus on variety of cultures and watercraft from Asia, Australia, the Mediterranean and Europe.

ANT 4142. European Prehistory (3). This course introduces students to the archaeology of the European continent from its initial colonization by early hominids during the Lower Paleolithic through the archaic state civilizations of the Aegean Bronze Age.

ANT 4153. North American Archaeology (3). 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 4154. Paleoindian Archaeology (3). This course introduces the context, variety, abundance, and meaning of Paleoindian assemblages and the relationship of these early cultures to changing postglacial environments and the evolution of Paleoindian cultures to their archaic relatives.

ANT 4163. Mesoamerican Archaeology (3). Investigates the development of high civilization in ancient Mesoamerica. Evidence is drawn from archaeology, art, architecture, ethnohistory, and ethnography.

ANT 4166r. Regional Civilizations in Ancient Mesoamerica (3). Each topic focuses on a regional civilization of ancient Mesoamerica (such as Maya, Olmec, or Mixtec). Aspects of prehistoric society covered include subsistence systems, trade, social and political organizations, ideology, calendrics and astronomy, language and writing, artifacts, architecture, sculpture and painting. Format is seminar with presentations, research reports, and discussion. May be repeated to a maximum of nine (9) semester hours.

ANT 4167. Maya Hieroglyphic Writing (3). This course presents the principles of classic Maya hieroglyphic writing, its history, and methods of its decipherment. Classic Maya mathematics are also introduced, as are calendrics and astronomy, Maya grammar and text structure, and a survey of monumental texts from selected sites.

ANT 4227r. Topics in PreColumbian Art and Iconography (3). This course focuses on major PreColumbian art traditions, as evidenced in the material culture. Attention is paid to cosmology and the socio-cultural context of art in each society. Topics include classic Maya art and iconography; Mixtec codices; Central Mexican art and iconography. May be repeated, when topics vary, to a maximum of nine (9) semester hours.

ANT 4241. Anthropology of Religion (3). 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 4242. Symbol and Ritual (3). This course is an introduction to symbolic approaches in anthropology and the study of ritual. It critically analyzes conceptual mechanisms that anthropologists use in analyzing symbolic activity. Material comes from various parts of the world.

ANT 4269. Economic and Ecological Approaches in Anthropology (3). Seminar on current literature and theories in ecological and economic anthropology, including debate between cultural ecologists and structural Marxists, between archaeology and related disciplines (landscape geography, social anthropology). Selected topics related to consumption, commodities, exchange, and gender. Controversies over foragers and egalitarian societies.

ANT 4274. Political Anthropology (3). Examines political behavior and symbolism from a cross-cultural perspective. Areas of study include political theory, political ritual, conflict and conflict resolution, gender politics, evolution of political forms, and human rights.

ANT 4302. Sex Roles in Cross-Cultural Perspective (3). 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 4309. Conquest of the Americas (3). This course examines the conquest of the Americas. It explores the arts of domination, power, and resistance and specific historical encounters where such arts are employed.

ANT 4312. North American Ethnology (3). This course acquaints students with the variety of aboriginal North American cultures and languages (north of Mexico), anthropological problems in the ethnology of native North America, historic trends in native North American sociocultural change, and recent developments among native North American peoples.

ANT 4323. Peoples and Cultures of Mexico and Central America (3). Provides an overview of Mexico and Central America and the multiplicity of cultural and linguistic groups within the developing modern nations from an anthropological viewpoint. Discusses cultural values and the problems of reconciling modern society with traditional peasant and indigenous ethnic groups, as well as institutions such as kinship and the family; technology, work, and ecological adaptations; social organization, political integration, religion, and ceremonial life.

ANT 4337. Peoples and Cultures of Amazonia (3). This course explores problems of similarity, difference, divinity and nature/culture with Amazonia. It addresses the conceptual problem of where one culture ends and another begins with regard to Amazonian peoples. Topics include regional networks of trade, similar knowledge systems, shamanism, rainforest ecosystems and social organization.

ANT 4352. Peoples and Cultures of Africa (3). A survey of African peoples and cultures, emphasizing the sub-Saharan region. Topics to be studied include geography, prehistory, history, religion, political economy, kinship, gender, and marriage. Contemporary issues in the anthropology of Africa.

ANT 4362. Peoples and Cultures of Southeast Asia (3). This course provides a brief survey and analysis of the configuration of peoples and cultures of Southeast Asia, with special attention to its ethnic diversity and unity, as well as the characteristics of each culture in its social and physical environment.

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 4364. Chinese Society and Culture (3). This course provides a general survey of the culture and social structure of China. Some of the topics to be emphasized include the origin of the Chinese culture, family and social organization, religion, ideology, and tradition vs. modernization.

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 4465. 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 4525. Human Osteology (3). Prerequisite: ANT 2511 or permission of the instructor. 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 4552. Primate Behavior (3). Prerequisite: ANT 2511 or permission of the instructor. Introduces the substantial scholarly literature on the behavior and ecology of free-ranging prosimians, monkeys and apes. Anthropological applications of recent findings will be emphasized.

ANT 4553. The Great Apes (3). Prerequisite: ANT 2511 or permission of the instructor. Focuses on the behavior and ecology of the large-bodied, non-human hominoids: chimpanzees, bonobos, gorillas and orangutans. Introduces the complexities involved in using this evidence to draw conclusions about human evolution.

ANT 4563. The Anthropology of Infancy (3). Prerequisite: ANT 2511 or permission of the instructor. An overview of human nature during this early phase of the life cycle. Uses data and theory from biological anthropology, primate ethnology, evolutionary psychology and sociocultural anthropology to provide a nontraditional perspective on human development and its interface with the caretaking behavior of adults.

ANT 4586. Human Evolution (3). 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 4640. Sociolinguistics (3). This course provides students with an understanding of the role language plays in society as a means of communication and as a social diacritic, as well as a primary vehicle of enculturation and acculturation. Topics include the methodology and theoretical foundations of sociolinguistics, linguistic variation in a social context, social and geographical dialects, bi- and multilingualism, and literacy and language planning, as featured in case studies from around the world.

ANT 4824. Anthropological Fieldwork: Archaeology (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.

ANT 4835. Anthropological Fieldwork: Underwater Archaeology (6). Prerequisite: ANT 4824. An introduction to the specialized methods and concepts of underwater archaeology. Successful completion of a certified divers program will be required of all students who wish to enter underwater environments. The course consists of both lecture and field sessions with reading assignments in selected texts. Specialists in various related disciplines will give presentations to the class as the course progresses. The field sessions will be at selected sites in the state of Florida and adjoining areas, and will involve diving activities at prehistoric Indian sites and/or shipwreck locations in Florida waters.

ANT 4907r. Directed Independent Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

ANT 4914r. Honors Work (3). May be repeated to a maximum of six (6) semester hours.

ANT 4930r. Special Topics in Anthropology (1-3). Specialized subjects and topics in anthropology. Topics may vary. May be repeated to a maximum of nine (9) semester hours when topics vary. May be repeated in the same semester.

LIN 4030. Introduction to Historical Linguistics (3).

LIN 4040. Introduction to Descriptive Linguistics (3).

ANG 5115. Seminar in Archaeological Method and Theory (3).

ANG 5117. Core Seminar in Archaeology (3).

ANG 5125. Geoarchaeology (3).

ANG 5127. Material Culture (3).

ANG 5128. Seminar in Lithic Analysis (3).

ANG 5132. Underwater Archaeology (3).

ANG 5133. Seminar in Submerged Sites Archaeology (3).

ANG 5134. Nautical Archaeology of the Americas (3).

ANG 5136. Ship Construction: Dugouts to Steamboats (3)

ANG 5137. Nautical Archaeology: Global View (3).

ANG 5138. Ship Research and Reconstruction (3).

ANG 5139r. Seminar in Underwater Archaeology (3).

ANG 5142. European Prehistory (3).

ANG 5152. Paleoindian Archaeology (3).

ANG 5155. Archaeology of the Southeastern United States (3).

ANG 5169r. Regional Civilizations in Ancient Mesoamerica (3).

ANG 5172. Historic Archaeology (3).

ANG 5182. Techniques of Archaeological Conservation (3).

ANG 5193r. Seminar in Archaeology (3).

ANG 5194r. Analysis and Interpretation of Archaeological Research (3).

ANG 5196. Public Archaeology (3).

ANG 5242. Symbol and Ritual (3).

ANG 5246. Contemporary Folk Religion (3).

ANG 5255. Peasant Societies (3).

ANG 5269. Economic and Ecological Approaches in Anthropology (3).

ANG 5309. Conquest of the Americas (3).

ANG 5337. Peoples and Cultures of Amazonia (3).

ANG 5478. Cultural Evolution (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 5675. Core Seminar in Linguistic Anthropology (3).

ANG 5677r. Seminar in Linguistic Anthropology (3).

ANG 5701. Applied Anthropology (3).

ANG 5824r. Anthropological Fieldwork: Archaeology (1-9).

ANG 5901. Field Methods in Cultural Anthropology (3).

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.)

Graduate Courses

ANG 5001. Proseminar (1). (S/U grade only.)

ANG 5091. Seminar in Research Methods (3).

ANG 5940r.	Supervised Teaching (1–3). (S/U grade only.)
ANG 5942r.	Internship in Museum Studies (3–9).
ANG 5971r.	Master's Thesis (1–6). (S/U grade only.)
ANG 5976.	Master's Thesis Defense (0). (S/U grade only.)
ANG 6199r.	Research Seminar in Archaeology (3).
ANG 6499r.	Research Seminar in Sociocultural Anthropology (3).
ANG 6590r.	Research Seminar in Physical Anthropology (3).

ANG 6690r.	Research Seminar in Linguistic Anthropology (3).
ANG 6907r.	Directed Independent Study (1–3).
ANG 6908r.	Directed Independent Study (1–3).
ANG 6930r.	Advanced Seminar in Anthropology (3).
ANG 6980r.	Dissertation (1–12).
ANG 8964.	Doctoral Qualifying Examination (0).
ANG 8966r.	Master's Comprehensive Examination (0).
ANG 8985.	Defense of Dissertation (0).

APPLIED POLITICS:
see *Graduate Bulletin*

ARABIC:
see **Modern Languages and Linguistics**

ARCHAEOLOGY:
see **Anthropology**

Department of ART

SCHOOL OF VISUAL ARTS AND DANCE

Chair: Roald Nasgaard; *Professors:* Blakely, Burggraf, Fichter, Nasgaard, Roche, Williams; *Associate Professors:* Bocz, Bowens, Garcia-Roig, Hartwell, Hook, Lindbloom, Messersmith, Odita, Rubini, Rutkovsky; *Assistant Professors:* Groeniger, Roberson; *Assistant in Art:* Wyatt-Magaljan; *Professors Emeriti:* Bell, Wamsley

The Department of Art offers opportunities for creative development and expression, providing instruction in the skills necessary to artistic creation and guiding students to an understanding of contemporary issues in the visual arts. In conjunction with these pursuits, the department benefits from the University Fine Arts Gallery and Museum for student and faculty exhibitions. Additionally, the department serves as a resource to the rest of the University, providing foundation courses in studio skills and studio methods.

The Department of Art offers work leading to the bachelor of arts (BA), bachelor of science (BS), and bachelor of fine arts (BFA) degrees in studio art, and graphic design. Graduates may pursue studies leading to the master of fine arts (MFA) degree in studio art. Course selection encompasses history, theory, and practice. Major studies may include design, drawing, painting, sculpture, printmaking, ceramics, photography, electronic imaging, and video. 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 academic adviser, Department of Art.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading.

Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common prerequisites or approved substitutions necessary for this degree program:

Studio/Fine Art

1. ART 1201;
2. ART 1202;
3. ART 1300;
4. ART 1301;
5. ARH 2050;
6. ARH 2051;
7. Six to nine (6–9) semester hours of 2000 level introductory media courses (ART prefix).

Graphic Design

1. ART 1300;
2. ART 1201;
3. PGY 1401;
4. ARH 2050 or ARH 2051.

Undergraduate Programs

The Core 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 must complete a pre-core program and core program before taking other art courses. Each program consists of a sequence of basic drawing, design, art theory, and imaging courses. Students

are encouraged to complete their core-level courses, particularly in drawing and design by the end of the sophomore year.

Note: students are required to complete State of Florida Common Course Prerequisites as listed above.

Required Pre-Core Courses

(Prerequisites for all art classes and entering core)

The pre-core program consists of three courses that introduce the student who may be interested in an art major to the field with classes that survey what artists do and the esthetic theory behind work in the visual arts. It also includes basic drawing to introduce the studio activity of making art, and a tools and equipment course that introduces the student to the kind of manual dexterity, tool skills, and safety knowledge that artists require.

ART 2003C.	Survey of Studio Art Practices (3).
ART 1300C.	Drawing I (3).
ART 2006C.	Artist's Tools and Equipment (1). (S/U grade only).

Seven (7) total semester hours.

Required Core Courses

(Foundation for all art majors)

Students must complete the core program, which consists of a sequence of basic design, drawing and painting, and a photography/digital imaging course.

After the pre-core courses, the following list of classes must be taken as prerequisites for all other art courses to complete the required core program. They may be taken in any order.

ART 1201C.	Basic Two-Dimensional Design (3).
ART 2203C.	Three-Dimensional Design (3).
ART 2301C.	Drawing II (3).
ART 2330C.	Drawing and Painting the Human Form (3).
PGY 2941C.	Digital and Photographic Imaging (3).

Fifteen (15) total semester hours.

Note: prior to the last two years of study, all students applying to the BFA program in Graphic Design must take GRA 2190, Graphic Design I.

The Bachelor of Arts Degree

The bachelor of arts (BA) degree is a fundamental liberal arts program totaling one hundred and six (106) semester hours. Requirements are as follows: liberal studies, thirty-six (36) semester hours; completion of the core program, twenty-two (22) semester hours; art history, nine (9) semester hours; additional studio, eighteen (18) semester hours; a modern language through the 2000-level (twelve [12] semester hours suggested); additional humanities, nine (9) semester hours.

The Bachelor of Science Degree

The bachelor of science (BS) program is ninety-seven (97) semester hours and is similar to the bachelor of arts, but there is a shift in emphasis from humanistic studies to extended technical studies in art. This may include, at the option of the student, a medium concentration. Major requirements are as follows: liberal studies, thirty-six (36) semester hours; the core program, twenty-two (22) semester hours; art history, nine (9) semester hours; additional studio, eighteen (18) semester hours; and extended technical course work, twelve (12) semester hours.

Concentrations for the BA and BS Degrees

After completing the core, students majoring in Studio Art for the BA and BS degrees would take courses selected from the studio art media concentration course lists. Students who complete a minimum of twelve (12) semester hours (or fifteen [15] semester hours in graphic design) with a concentration in a media area, would have that area listed as their media concentration on their record by the Department of Art. For example, a degree under this system might be—BS in Studio Art: Concentration in Painting. Art majors who do not complete a concentration may choose an interdisciplinary concentration with permission from the department chair. Students should consult the Department of Art for specific information concerning the various concentrations.

The Bachelor of Fine Arts Degree in Studio Art

The bachelor of fine arts (BFA) limited access program is a one hundred-eighteen (118) semester-hour program with the most intensive work occurring in the final five semesters. It differs from the BA and BS degrees in that it provides the graduate with a more intensive background in professional skills and theoretical knowledge. The BFA degree seeks to develop in graduates an informed personal vision, a high level of competence in artmaking, and the ability to make sound artistic decisions. It is a proficiency-based program, characterized by continuous assessment. Upon completion of the twenty-two (22) semester hours in the core program, application for the BFA degree is by portfolio review of the faculty. The process includes an individual review of the student's portfolio by two faculty who may recommend that the work be submitted to the entire faculty for consideration. Course work includes thirty-six (36) semester hours of liberal studies, forty-eight (48) semester hours of studio art

courses and twelve (12) 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. Students enrolled in the BFA program are exempt from the language requirement, but they are required to maintain a 3.0 grade point average (GPA) in art and art history courses and to fulfill the additional requirements and responsibilities of this program, culminating in the advancement review and graduation show. The BFA adviser can provide additional guidance with regard to entrance and degree requirements. Studio space is provided in the BFA warehouse.

The Bachelor of Fine Arts Degree in Graphic Design

The bachelor of fine arts (BFA) in graphic design is a limited access program for currently enrolled students at The Florida State University that requires one hundred eighteen (118) semester hours of coursework, with the most intensive work occurring during the final five semesters. It provides the graduate with a more intensive background in professional skills and theoretical knowledge in design and electronic media. Application is made when the student is at or near the end of the core course sequence and has completed GRA 2190C. The process includes an individual review of the student's portfolio by two faculty, who may recommend that the work be submitted to the entire faculty for consideration. Studio space is provided in the Design Shop in the *Fine Arts Building, room 303*.

Coursework includes thirty-six (36) semester hours of liberal studies; twenty-five (25) semester hours in the core program (including GRA 2190); twelve (12) semester hours in art history including; fifteen (15) semester hours in graphic design/electronic media; and thirty (30) semester hours in additional studio courses in graphic design, electronic media or related studio art subjects. Students accepted into the BFA program in graphic design may choose courses from other areas in art, such as photography, printmaking, or sculpture, to complete their major; however, to receive the BFA in graphic design, they must have a minimum of fifteen (15) semester hours in the design concentration including GRA 4108, Contemporary Design Seminar. The following additional courses may be taken to satisfy the design concentration requirements:

GRA	2190C	Graphic Design I (3). (prerequisite)
GRA	3107	Design History and Theory (3).
GRA	3112C	Graphic Design II - Typography (3).
GRA	4108	Contemporary Design Seminar (3).
ART	4295Cr	Advanced Workshop - Design Issues (3).
ART	4926C	Media Workshop - Introduction to Web Design (3).
ART	4928C	Advanced Workshop - Design Seminar (3).

Requirements for Students Minor in Art

A minor in art requires eighteen (18) semester hours, which may include ART 1300C Drawing I (for nonmajors), ART 2010C Photography for Non-Art Majors, ART 2003C Survey of Studio Art Practices and ARH 2521C Survey in African American Art and Aesthetics. A student's minor program should be determined through consultation with the appropriate departmental adviser.

Graduate Program

The Master of Fine Arts Degree

The master of fine arts (MFA) in studio art is a two-year residency program with a minimum requirement of sixty (60) 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 thirty-two (32) semester hours in studio art, eleven (11) semester hours of electives within or outside the department, a minimum of three courses (nine [9] semester hours) in art history at the graduate level, and a minimum of eight (8) semester hours toward preparation of the graduate exhibition and thesis.

For information regarding the MFA degree, please contact the academic adviser, Department of Art, 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

ARH	—	Art History
ART	—	Art
GRA	—	Graphic Arts
PGY	—	Photography

Undergraduate Courses

Correlating Courses

ART 1300C. Drawing I (for Non-Art Majors) (3). (See description under Studio Courses below.)

ART 2003C. Survey of Studio Art Practices (3). Demonstration, discussions, and slide/film presentations explore the way artists work in a broad range of media. Emphasis on visual perception and basic art making.

ART 2010C. Photography for Non-Art Majors (3). An introduction to camera operation and image making, with discussion of contemporary and historical work. Emphasis on 35mm slide projects rather than printing techniques.

ART 3949r. Cooperative Education Work Experience (0). (S/U grade only.) Internships in a variety of work situations are available. These internships are selected by the faculty to broaden the students skills and flexibility as artists.

Studio Courses

ARH 2521C. Survey in African-American Art (3). This course surveys special topics in African-American art and aesthetics. We will explore power dynamics, social protest, artistic accommodation, criticism, perception, content and motivation as historical and contemporary influences on and in African-American art.

ART 2203C. Three-Dimensional Design (3). Prerequisites: ART 1201C, 1300C, 2003C, 2006C. This course provides experience in designing and shaping expressive three-dimensional forms that are art objects with height, width, and depth.

ART 1201C. Basic Two-Dimensional Design (3). This course is for the beginning student who wishes to learn, through participation, the basic elements of two-dimensional design and how they can be used to communicate nonverbally with emphasis on aesthetic content.

ART 1300C. Drawing I (3). Creative expression through a variety of drawing media. Emphasis is on black and white techniques and pencil, ink, and soft drawing media.

ART 2301C. Drawing II (3). Prerequisites: ART 1300C, 1201C. 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. Drawing and Painting the Human Form (3). Prerequisites: ART 1300C, 2301C. This course is an introduction to drawing techniques and water-based painting focusing on the human figure, both clothed and unclothed. May be repeated to a maximum of nine (9) semester hours.

ART 2013r. Contemporary Art Seminar (1). (S/U grade only.) This is a lecture and discussion course conducted by studio faculty. It provides students with insight into the current work by resident faculty and visiting artists. May be repeated to a maximum of three (3) semester hours.

ART 2006C. Artists Tools and Equipment (1). (S/U grade only.) This course is an introduction to safety practices, tools, materials, and processes used in making art. Completion or exemption of the course is required for admission to other classes and toolroom facilities.

ART 3420C. Fundamentals of Printmaking: Lithography (3). Prerequisites: ART 1201C, 1300C. An introduction to the basic lithographic techniques of graining, drawing, etching, and printing.

ART 2400C. Fundamentals of Printmaking: Relief (3). Prerequisites: ART 1201C, 1300C. An introduction to relief printing in wood block, linoleum block, and collagraph.

ART 2430C. Fundamentals of Printmaking: Silkscreen (3). Prerequisites: ART 1201C, 1300C. An introduction to the basic techniques of serigraphy.

ART 2441C. Fundamentals of Printmaking: Etching (3). Prerequisites: ART 1201C, 1300C. An introduction to intaglio printing in black and white through etching with nitric acid on zinc plates. Techniques include line etching, aquatint, cut plate and embossing, and softground.

ART 3764C. Beginning Ceramics (3). Prerequisites: ART 1201C, 1300C. 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 2130C. Beginning Fiber/Fabric Design (3). Prerequisites: ART 1201C, 1300C. This is an introductory survey of fabric design. Traditional and contemporary applications of fabric are discussed. Nonwoven techniques, resist dyeing, and basic weaving are explored.

GRA 2190C. Graphic Design I/Introduction (3). Prerequisites: ART 1201C, 1300C, 2301C. A continuation of the basic concepts introduced in methods and concepts I and II as they apply to graphic design. Iconography, signs and symbols, and two-dimensional and three-dimensional compositions will be used as exploratory design problems. These problems extend the methodology and conceptualizing/problem-solving skills of design.

GRA 3107. Design History and Theory (3). Prerequisites: ART 1201C, 1300C, 2003C, 2006C, 2301C, 2330C. Corequisites: GRA 2190C. This course examines the historical development of design styles and techniques and their influences on contemporary culture.

GRA 3112C. Graphic Design II/Typography (3). Prerequisites: GRA 2190C; PGY 2401C. This course introduces students to typography and how type works as pure design creating form, value, direction, etc., as letter forms or marks, as well as on a communication level as a message carrier.

GRA 3193C. Graphic Design III/Production (3). Prerequisite: GRA 2190C; Corequisite: GRA 3112C. Exploration of the design process through solving specific, existing design problems or fulfilling specific design needs. The process takes students from conceptualizing explorations to concept refinement to final implementation.

GRA 4108. Contemporary Design Seminar (3). Prerequisite: admission to BFA program. This course is intended to develop knowledge of the historical and social forces that have shaped and continue to shape art and design in contemporary culture.

ART 2500C. Painting I (3). Prerequisites: ART 1201C, 1300C. An introduction to personal expression in painting medium; emphasizes color, composition, and painting techniques through historical examples and technical demonstrations.

ART 2501C. Painting II (3). Prerequisite: ART 2510C. Development of skills/methods of collecting and considering images, along with in-depth study of painting techniques. Discussion of related contemporary and historical examples.

ART 3542C. Watercolor (3). Prerequisites: ART 1201C, 1300C. An introduction to transparent watercolor techniques through lectures and visual aids which demonstrate its possibilities.

ART 2701C. Sculpture I (3). Prerequisites: ART 1201C, 1300C. Introduction to basic sculptural processes of fabrication, carving, modeling, and casting. Emphasis on developing ideas through analytical responses to assignments.

ART 3710C. Sculpture II (3). Prerequisite: ART 2701C. Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach.

ART 3930r. Special Topics in Art (1-3). (S/U grade only.) Faculty develops topics of importance to students interests and needs. May be repeated to a maximum of three (3) semester hours.

ART 2752Cr. Wheel Throwing (3). This is a first course in which the student learns to throw on the potter's wheel. From the basic cylinder, the student learns to form a pitcher, covered jar, and other functional shapes. Some alteration of thrown forms is also covered. Experience with clay and glazing is helpful but not required. This course may be repeated to a maximum of nine (9) semester hours, with requirements increasing in difficulty each time.

ART 4800. Criticism Seminar (3). Aspects of contemporary art scene, galleries, and markets. Stress on developing portfolio/resume, critical attitude, and skills necessary for presenting work.

ART 4905r. Directed Individual Study (3-9). May be repeated to a maximum of nine (9) semester hours.

ART 4943r. Internship in Creative Art (1-12). (S/U grade only.) Prerequisites: Core program, B average in all related courses. Preference given to seniors. Internships in a variety of work situations. Must be approved by department chair. May be repeated to a maximum of twelve (12) semester hours.

ART 4981r. Honors Work (3). May be repeated to a maximum of twelve (12) semester hours.

PGY 2110C. Color Photography (3). Prerequisites: PGY 2401C and 3410C are recommended. Introduction to skills and understanding necessary to develop and print color materials. Emphasis on self-expression, historical and contemporary examples.

PGY 2401C. Photography I (3). Prerequisite: ART 1201C or ART 2010C. Photography as a creative means of expression. 35mm technology, fine black and white printmaking.

PGY 2941C. Digital and Photographic Imaging (3). Prerequisites: ART 1201C, 1300C, 2003C, 2006C. 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.

PGY 3410C. Photography II (3). Prerequisite: PGY 2401C. Photography as a fine art. Students develop a series of portfolios of images based on their personal vision and understanding of the medium.

Media Workshops

Note: the media workshops allow students to pursue intensive technical studies in one specific medium under the appropriate instructor. Workshops are divided into six basic areas, each of which serves as an extension of intermediate courses in corresponding media. Each may be repeated for a maximum of nine (9) semester hours.

ART 4920Cr. Media Workshop: Fibers (3). Prerequisite: ART 2701C or instructor permission. Includes three-dimensional and mixed media approaches to the use of soft materials in art making. May be repeated to a maximum of nine (9) semester hours.

ART 4921Cr. Media Workshop: Painting (3). Prerequisite: ART 2510C. Independent studies under painting instructors; emphasis on competence in medium and development of individual solutions to problems. May be repeated to a maximum of nine (9) semester hours.

ART 4922Cr. Media Workshop: Sculpture (3). Prerequisites: ART 2701C; clay sculpture workshop requires ART 3110C. Intensive studies under sculpture instructors; stresses competence in following areas: casting in nonferrous metals, steel fabrication techniques, woodworking, and landscape sculpture planning and production, and clay sculpture workshop. May be repeated to a maximum of nine (9) semester hours.

ART 4923Cr. Media Workshop: Printmaking (3). Prerequisites: Appropriate courses in fundamentals of printmaking series; photo-silkscreen and photo-lithography workshops require PGY 2401C. Advanced techniques of silkscreen, relief printing, etching, and lithography, as well as photo-silkscreen, relief printing, and papermaking, depending on appropriate instructor. May be repeated to a maximum of nine (9) semester hours.

ART 4924Cr. Media Workshop: Photography (3). Prerequisites: PGY 2401C, 3410C. 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 nine (9) semester hours.

ART 4925Cr. Media Workshop: Word and Image (3). Prerequisites: ART 2230C, 3232C, 3233C. Intensive studies in intermediate graphic design.

ART 4925Cr. Media Workshop: Typography (3). Prerequisites: ART 2230C, 3232C, 3233C. Intensive studies in intermediate graphic design issues dealing with typography.

ART 4925Cr. Media Workshop: Design Production and Image (3). Prerequisites: ART 2230C, 3232C, 3233C. Intensive studies in intermediate graphic design dealing with issues in image and production techniques.

ART 4926Cr. Media Workshop: Electronic Imaging (3). Prerequisite: Instructor permission. Electronic imaging, video, computer graphics, animation. May be repeated to a maximum of nine (9) semester hours.

ART 4927Cr. Media Workshop: Metals (3). Prerequisite: ART 2701C. Includes sculptural methods and metal forming in a more expansive and versatile approach. May be repeated to a maximum of nine (9) 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 (27) semester hours.

ART 4928Cr. Advanced Workshop (3). This is a tutorial course available only to BFA and BS students. May be repeated to a maximum of twenty-seven (27) semester hours.

ART 4928Cr. Advanced Workshop: Painting (3).

ART 4928Cr. Advanced Workshop: Sculpture (3).

ART 4928Cr.	Advanced Workshop: Printmaking (3).
ART 4928Cr.	Advanced Workshop: Photography (3).
ART 4928Cr.	Advanced Workshop: Graphic Design Problems (3).
ART 4928Cr.	Advanced Workshop: Design Production and Image (3).
ART 4928Cr.	Advanced Workshop: Electronic Imaging (3).
ART 4828Cr.	Advanced Workshop: Experimental Web Design (3).
ART 4928Cr.	Advanced Workshop: Ceramics (3).
ART 4928Cr.	Advanced Workshop: BFA All Media (3).
ART 4929Cr.	Advanced Workshop (3). This is a tutorial course available only to BFA and BS students. May be repeated to a maximum twenty-seven (27) semester hours.
ART 4929Cr.	Advanced Workshop: Painting (3).
ART 4929Cr.	Advanced Workshop: Sculpture (3).
ART 4929Cr.	Advanced Workshop: Printmaking (3).
ART 4929Cr.	Advanced Workshop: Photography (3).
ART 4929Cr.	Advanced Workshop: Graphic Design Problems (3).
ART 4929Cr.	Advanced Workshop: Design Production and Image (3).
ART 4929Cr.	Advanced Workshop: Electronic Imaging (3).
ART 4929Cr.	Advanced Workshop: Digital Cinema (3).

ART 4929Cr.	Advanced Workshop: Advanced Web Design (3).
ART 4929Cr.	Advanced Workshop: 3-D Animation (3).
ART 4929Cr.	Advanced Workshop: Ceramics (3).
ART 4930Cr.	Advanced Workshop (3). Critical issues in contemporary art. The course will vary each semester and will cover topics of critical significance in 20th-century contemporary art. This is a seminar course open only to BFA students. May be repeated for a maximum of twenty-seven (27) semester hours.

ART 4931r. Instruction in Advanced Technical Problems (3–6). May be repeated to a maximum of six (6) semester hours.

Art Related Courses

Note: the following University courses are designated art related and are accepted toward the BFA degree with written approval from the director of the BFA program. Other courses may be accepted with written permission from the director of the BFA program and the chair of the department. Course descriptions can be found under the individual departments in which the courses are taught.

ADV 3000.	Principles of Advertising (3).
ADV 3001.	Creative Strategy (3).
ENG 3110.	Film Genres (3).

FIL 3503.	The Contemporary Cinema (3).
HUM 3321.	Multicultural Dimensions of Film and 20th-Century Culture (3).
MMC 2000.	Introduction to Mass Media (3).
PHI 3800.	Philosophy of the Arts (3).
RTV 3201.	Media Techniques (3).
RTV 3220.	Television Production (3).

Graduate Courses

ART 5810r.	Seminar in Studio Problems (4).
ART 5907r.	Directed Individual Study (1–4). (S/U grade only.)
ART 5934r.	Contemporary Art Seminar (1). (S/U grade only.)

Graduate Workshops

ART 5927Cr.	Graduate Workshop (1–4).
ART 5928Cr.	Graduate Workshop (4).
ART 5929Cr.	Graduate Workshop (4).
ART 5937r.	Graduate Instruction in Advanced Technical Problems (4–8).
ART 5940r.	Supervised Teaching (1–3). (S/U grade only.)
ART 5972r.	Graduate Show and Thesis (1–8). (S/U grade only.)

Department of ART EDUCATION

SCHOOL OF VISUAL ARTS AND DANCE

Acting Chair: Marie L. Rosal; *Professors:* Anderson, Dorn, McRorie, Rosal; *Associate Professors:* Finnegan, Troeger; *Visiting Assistant Professor:* Gussak

The primary mission of the undergraduate program is to prepare certified art teachers for public and private school service. A pre-art therapy option is offered in conjunction with certification. Students have the opportunity to participate in the University's Florence, London, or other international programs as part of their course of studies. Extensive in-school observation and participation are required.

The undergraduate certification program is based on the theoretical position of comprehensive art education. This means that the program stems from the content and inquiry structures of mature practicing professionals in studio art, art history, art criticism, and aesthetics, and is adapted to developmental stages, cognitive styles, and special and individual needs of students.

The principle thrust of the program is to deepen the visual and cultural literacy of future art teachers and expand the fundamental base of art knowledge from which art teachers teach. This knowledge is taught in a variety of ways using the disciplines of art and sound educational principles in order to prepare the art education student to teach effectively in public and private school settings and in community arts programs.

Art education courses are offered once per year and are sequenced over a two-year period. Students are required to maintain a portfolio of teaching materials as designated in their coursework and are expected to go through a first-year and final review.

The Department of Art Education offers programs leading to the bachelor of science (BS), bachelor of arts (BA), master of science (MS), and master of arts (MA) degrees with certification. For graduate programs, refer to the *Graduate Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. EDF X005;
2. EDG 2701;
3. EME 2040*;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
 - b) A minimum of nine (9) semester hours in mathematics, (MGF, MGT, MAC and STA prefixes only) excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.
5. ART X300;
6. ART X201;
7. ART X301 or ARH 3001;
8. ART X202 or ART 2201;
9. ARH X050;

10. ARH X051;

11. **Two** 2000-level studio art I courses (six [6] semester hours) with the ART prefix;

12. **Two** of the following courses: ART X510, ART X400, ART X4XX, ART X1XX, ART X110, ART X470.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social sciences requirements.

In addition to EDG 2701, the student must take six (6) additional hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Courses specified in categories 4–12 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in Art Education

Students should consult with a departmental advisor to determine teacher certification requirements and changes in art education requirements.

Admission to the four-year program in art education and to student teaching leading to the baccalaureate degree requires a 2.5 overall grade point average (GPA) and a 3.0 in art courses. Twenty-one (21) semester hours in art and/or art history must be completed before entering the core art education program. Also, the student must take and pass the CLAST exam prior to entering the core program in art education. Each student must also be admitted to the teacher education program in the College of Education by the end of the first semester of the art education core. A GPA of 3.0 in courses in the upper-level program is a prerequisite for student teaching (ARE 4940). All professional education course work must also be completed prior to student teaching.

The core program in teacher certification includes the following topics: theory and practice I and II; human development and learning in art; assessment in art education; classroom management, ethics and school law; portfolio; and ARE 4550C and 4940. In addition, students must take both a specified reading course and TSL 4324 in the College of Education. Computer literacy is a state requirement for teaching, which may be satisfied by taking ARE 4931. Admission to art education is in the junior year. The degree most commonly awarded is the bachelor of science (BS) with certification in art, grades K–12, although a bach-

elor of arts (BA) may be earned with the addition of a foreign language. The pre-art therapy option requires psychology course work beyond that described above. The required (12) semester hours may be chosen from: CLP 4143; DEP 3103, 3305, 4204; PPE 3004; PSY 2012; and from among other courses determined in consultation with an adviser. Students in the pre-art therapy track are placed in schools with special needs students for student teaching. No minor is offered in art education.

Arts and Community Practice Certificate Program

The certificate program in the arts and community practice is designed for undergraduate and graduate students who wish to develop a focused concentration on the application of the arts to community development. This is inclusive of groups and families, and addresses all stages of human development. Particular attention will be given to prevention, enrichment, and response to social concerns.

Program requirements are based on the integration of the theoretical and practical aspects of dance, art education/therapy, and community-based generalist/clinical social work. Requirements include coursework in art education/therapy, dance, and social work totaling at least twelve (12) semester hours with at least three (3) semester hours taken from each program in certificate-approved courses (see department). Students must earn a "B" average in all courses taken for the certificate. An additional requirement is the completion of a major paper or project linking theory and practice. The program of study must be approved by the department.

Students in the BS or BA program in art education must apply through the department. Students must have a minimum 3.0 GPA to be accepted into the certificate program.

Definition of Prefix

ARE — Art Education

Undergraduate Courses

ARE 3047. Foundations of Art Education (3). Prerequisite: Twenty-one (21) semester hours of studio art and/or art history. This course includes the study of theoretical and historical foundations of art education: philosophical, psychological, and sociological approaches and their influence on curriculum development at the elementary and secondary levels. Observation in the public schools is required.

ARE 3301C. Art in Early Childhood Education (3). The role of art in the education of the young child in terms of developmental trends, individual variability, methods, media, and curriculum. On-site clinical experiences required.

ARE 3313C. Art in the Elementary Schools (3). Study of significant literature and research in the field; laboratory investigation of materials, ideas, and methods currently used in elementary schools. On-site clinical experiences required.

ARE 4355C. Teaching Studio Content and Methods in Art (3). Pre- or corequisite: ARE 3047. In this course, future teachers will develop concepts, methods, and materials of studio production. They will also examine child and adolescent development and abilities in studio art and studio classroom management. Observation and participation in schools are required.

ARE 4356C. Teaching Art Criticism and Aesthetics (3). Pre- or corequisite: ARE 3047. In this course, students will develop in their understanding of the concepts which undergird art criticism and aesthetics and will develop skills in the use of methods of art criticism. Students will also examine skills, concepts, and strategies for teaching aesthetics and art criticism in elementary and secondary schools. Observation and participation in schools are required.

ARE 4357. Teaching Art History (3). Pre- or corequisite: ARE 3047. Students will develop concepts about the nature of art history, skills in doing historical research, and skills, concepts, and strategies for teaching art history at the elementary and secondary levels. Observation and participation in schools are required.

ARE 4550C. Art Therapy/Special Populations (3). 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 4790. Women, Art and Education (3). This course is designed to raise awareness of issues related to women's contributions to the art world, as shaped by formal and informal educational experiences in the arts. Students investigate historical and contemporary education/practice of women as artists and art educators, with emphasis on theoretical feminist thought and practical considerations related to women's professional and personal contributions.

ARE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine (9) semester hours.

ARE 4930r. Special Topics in Art and Education (3). Topics vary from term to term in response to new developments in art education. May be repeated to a maximum of six (6) semester hours as topics vary.

ARE 4931. Computer Graphic Design in Education and Art (3). Introduction to computer functions. Emphasis on visual literacy through practice and adaptation of computer processes to educational and art purposes.

ARE 4936. Senior Seminar in Art Education (3). Prerequisites: ARE 3047, 4355C, 4356C, 4357. Students examine and develop curriculum in art, explore practical art classroom management and logistics strategies, and complete preparation of teaching resources to be used in student teaching and in their careers.

ARE 4940. Student Teaching in Art (9). (S/U grade only.) Clinical experience teaching art in a public school assignment.

Graduate Courses

- ARE 5245. Curriculum and Programs (3).
- ARE 5253. Art in Community Service (3).
- ARE 5258. Museum Education (3).
- ARE 5262. Administration of Art Programs (3).
- ARE 5304. Art in Childhood Education (3).
- ARE 5555. Advanced Art Therapy (3).
- ARE 5641. Critical Analysis (3).
- ARE 5665. Managing the Arts Organization (3).
- ARE 5745. Research Survey (3).
- ARE 5865. Arts Administration in the Public Sector (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 5935r. Seminar: Current and Comparative Studies in Art Education (3).
- ARE 5940. Supervised Teaching (3). (S/U grade only.)
- ARE 5944r. Field Laboratory Internship (1–9). (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*.

Department of ART HISTORY

SCHOOL OF VISUAL ARTS AND DANCE

Chair: Paula Gerson; *Professors:* Gerson, Hahn, Neuman; *Associate Professors:* Bearor, Draper, Freiberg, Rose, Weingarden; *Assistant Professor:* Jolles; *Visiting Assistant Professor:* Lee; *Curator:* Hudson; *Professors Emeriti:* Bosch (deceased), Bucher (deceased), Mason (deceased); *Courtesy Professors:* de Grummond, Nasgaard, Palladino-Craig, Pfaff, Pullen

The Department of Art History offers programs leading to the bachelor of arts (BA), master of arts (MA), and the doctor of philosophy (PhD) in the history and criticism of art.

The faculty includes specialists in Far Eastern art, Early Medieval art, Romanesque and Gothic art, Italian and Northern European Renaissance painting, sculpture, and architecture, Baroque and 18th-century art and architecture, modern architecture, 20th-century art and criticism, American art, contemporary critical theory, history of photography, African art, Oceanic art, Native American art, and museum studies. The Appleton Eminent Scholar in the Arts chair is filled each year by a distinguished art historian, whose field complements those of the permanent faculty. Members of the 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 three classrooms fully equipped for multimedia presentations and a visual resource center under the direction of two full-time curators. The resource center houses a computer-searchable collection of over 350,000 slides, digital images, videos and pedagogical CDs, and maintains image-based websites related to each art history course. The University library holdings are extensive and include a rare book and facsimile collection. The library also supports many electronic resources and an excellent inter-library loan division.

The **University Museum of Fine Arts** houses several permanent collections and is used for temporary exhibitions. Many of these are generated by faculty and students who have also contributed to exhibitions at the Mary Brogan Museum of Art and Science of Tallahassee. The University administers the **Appleton Museum** in Ocala, which includes over 2,500 works in its permanent collection, and the **Ringling Museum** in Sarasota, with its internationally known collection of European art.

The **Florida State University Study Centers in Florence and London** offer a range of art history courses and opportunities for the study of art. Additionally, art history students use the international programs to study language and to pursue museum studies. Internships are available at locations such as the British Museum in London. Students may gain archaeological experience at the Florida State University excavation at the Etruscan site of Cetamura in Chianti and at the site in Poggio delle Civitelle at San Venanzo.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. ART 1201;
2. ART 1300;
3. ARH 2050;
4. ARH 2051;
5. Nine to twelve (9–12) semester hours of a foreign language (contact department for details).

Major in Art History

The bachelor of arts (BA) program in the history and criticism of art requires a total of forty-two (42) semester hours of which thirty-three (33) will be in art history and nine (9) in studio art. The foundation courses (ARH 3056, 3057, and 3530) provide a broad view of major artists and monuments from Western and non-Western art history and are to be taken as early as possible. A seminar in art history is required for all art history majors. Students must also satisfy the University language requirement for the BA degree.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Minor in Art History

A minor in art history requires fifteen (15) semester hours of course work in the department. The student may choose any five art history courses in completing this requirement.

Minor in Museum Studies

A minor in museum studies requires fifteen (15) semester hours. Of these, nine (9) semester hours are in museum studies courses, three (3) hours are in a related elective, and the remaining three (3) hours are taken in supervised internship.

Definition of Prefix

ARH — Art History

Undergraduate Courses

ARH 2000. Art, Architecture, and Artistic Vision (3). Nonchronological approach to the understanding and appreciation of works of art.

ARH 2521C. Survey in African-American Art and Aesthetics (3). This course surveys special topics in African-American art and aesthetics. We will explore power dynamics, social protest, artistic accommodation, criticism, perception, content and motivation as historical and contemporary influences on and in African-American art.

ARH 2581. Survey of "Tribal Arts" Past and Present (3). This course will study the non-Western arts as tools for interacting with other people, or with environmental or universal forces.

ARH 3056. History and Criticism of Art I (3). Introductory survey from prehistoric through late-Medieval art history.

ARH 3057. History and Criticism of Art II (3). Introductory survey from early Renaissance through modern art history including developments in American art.

ARH 3130. Survey of Greek Art and Archaeology (3). Review of the major accomplishments in Greek art from early times up to and including the Hellenistic period through a survey of principal monuments, works, and archaeological evidence.

ARH 3150. Art and Archaeology of Ancient Italy (3). 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 3530. The Arts of Asia (3). 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 3582. Arts and Cultures of the South Pacific (3). This course will explore the significance of art, past and present, for the people of Samoa, Tonga, Cook, Tahiti, Hiva Oa, Rapa Nui, Aotearoa, Hawaii, Fiji, Australia, Papua New Guinea, New Ireland, New Britain, Trobriands, Solomons, Vanuatu, Tanna, Belau, Mariam, and the Marshalls. Each region is characterized by certain art forms, religious beliefs and practices that are shaped by influences within the South Pacific and beyond.

ARH 3800r. Methods of Art Criticism (3). Undergraduate seminar in art history with changing topics. May be repeated to a maximum of twelve (12) semester hours.

ARH 3930r. Special Topics (1–3). (S/U grade only.) May be repeated to a maximum of six (6) semester hours.

ARH 4110. Art and Archaeology of the Bronze Age in the Aegean (3). A study of 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). A survey of the archaeology and art of ancient Egypt from the Predynastic 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). A study of Etruscan culture, art, and archaeology.

ARH 4131. Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3). Survey of 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). Roman art and archaeology from Augustus through the Antonines with a survey of the major artistic accomplishments and the archaeological remains.

ARH 4173r. Studies in Classical Archaeology and Art (3-9). Studies in specific aspects of the archaeology and art of Greece and Italy. May be repeated to a maximum of nine (9) semester hours.

ARH 4210. Early Christian and Byzantine Art (3). Prerequisite: ARH 3056 or permission of instructor. Course begins with the first manifestations of Christian art and covers audiences, patrons, and problems of the representation of religious ideas. Arts discussed include Roman catacombs, mosaics of Ravenna and Sicily, sacred spaces of martyria and churches, icons of Rome and Constantinople and late and luxurious court arts of Byzantium.

ARH 4211. Early Medieval Art (3). Prerequisite: ARH 3056 or consent of instructor. Considers 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 4230. Later Medieval Art (3). Prerequisite: ARH 3056 or consent of instructor. Generally called Gothic art, this course includes 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 4304. History of Renaissance Architecture (3). Prerequisite: ARH 3057 or consent of instructor. A survey of 15th- and 16th-century architecture in Italy with emphasis on works by Brunelleschi, Alberti, Bramante, Michelangelo, and Palladio. Discussion will center on how the major architectural types developed and why: churches, city palaces, public piazzas, and country villas. Particular attention will be 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 consent of instructor. An examination of how social and historical issues influenced the arts during the first great cultural flowering of the Renaissance in Florence, Rome, and Venice. Discussion will center 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 consent of instructor. 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 will include 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 consent of instructor. 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 consent of instructor. This course investigates painting, sculpture, and architecture in Italy and Spain during the 17th century, stressing the theatrical, ecstatic, and virtuosic 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 consent of instructor. An examination of 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 consent of instructor. A study of 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 4421. Modern European Art: Postimpressionism through Surrealism (3). Prerequisite: ARH 3057 or consent of instructor. 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 provide the basis for this inquiry.

ARH 4431. Modern European Art: Neoclassicism through Impressionism (3). Prerequisite: ARH 3057 or consent of instructor. 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 4523. West African Art and the Diaspora: Brazil, Haiti, the United States and Suriname (3). This course is intended to invest students with an appreciation for, and an ability to identify and discuss, the arts of 18th, 19th and 20th century West African societies. It will also examine the impact of those art forms on the mind and spirits of Black populations in the Americas by giving students a framework for understanding how these arts work within social and cultural contexts.

ARH 4540. Arts of India (3). Painting, sculpture, and architecture of India.

ARH 4551. Arts of China (3). An introduction to 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). An introduction to 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 ukiyoe.

ARH 4583. The Arts of Oceania, Africa and Native America (3). This course discusses, analyzes and examines the arts of people from Oceania, Africa and Native America. It provides students with a valid framework for understanding the complexities involved with these art forms from inside and outside specific social and cultural contexts.

ARH 4585. Arts and Architecture of Polynesia (3). This course is an in-depth introduction to the archaeology, art, architecture, ceremonies and cultures of the island peoples. This includes Tonga, Western Samoa, American Samoa, Marquesas, Society, Cook, Austral and Hawaiian Islands, New Zealand, and Easter Island.

ARH 4601. Native American Arts and Architecture of the Southwest (3). This course is an in-depth discussion of the archaeology, art, architecture, ceremony, religions and culture of the Pueblo and Navajo peoples living in the Southwest. It examines issues central to the understanding of how these art forms work within the social and cultural context of the Pueblo and Navajo people.

ARH 4620. U.S. Art: Centennial through Late Modernism (3). Prerequisites: ARH 3057 or consent of instructor. What is "American" about our country and its art? Developing a national identity in culture was a central concern during this period. Reflecting regional and multicultural responses to this and other questions of subjectivity and modernity, this course surveys painting, sculpture, architecture, photography, and material culture from 1876 to the 1950s.

ARH 4621. U.S. Art: Colonial Era to the Centennial (3). Prerequisites: ARH 3057 or consent of instructor. From European images of "discovery" to conceptions of national culture presented to visitors at the Philadelphia Centennial, this course examines an emerging national identity as reflected and developed in the arts and material culture from the Colonial period to 1876. Course content is multicultural and includes discussions of women's contributions.

ARH 4642. Art after 1940 (3). Prerequisite: ARH 3057 or permission of instructor. Course covers American and European art from Abstract Expressionism to the present. This 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 4680. American and Ethnic Folk Art (3). This course is an introduction to American folk arts from the 17th century to the present. It provides students with a framework for understanding how folk arts worked within the social and cultural context of their time. It will also discuss the different ways folk arts have been defined, redefined, utilized, collected and understood by the art world at large.

ARH 4720. History of Graphics (3). Prerequisite: ARH 3057 or consent of instructor. Survey of artists and processes in Western printmaking from the 15th century through the 20th century.

ARH 4810. Art History Methods and Media (3). Prerequisites: ARH 3056, 3057, 3530. Seminar for undergraduate art history majors; introduction to art media and research methods.

ARH 4815r. Honors Work in Art History (1-6). May be repeated to a maximum of nine (9) semester hours, subject to approval of faculty advisor. A written thesis is required.

ARH 4870. 20th-Century U.S. Women's Art (3). The earliest known sculptor in colonial America was a woman. Her work and that produced by successive women in U.S. visual culture, with a 20th-century emphasis, are the focus of this course. Students are also introduced to critical writings on representations of women in art and to the varieties of politicized responses—from Goddesses to Guerrilla Girls—to cultural bias against women.

ARH 4905r. Directed Individual Study (3). May be repeated to a maximum of nine (9) semester hours; duplicate registration is allowed in the same term.

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. Concurrent registration is permitted. May be repeated to a maximum of twelve (12) semester hours.

Graduate Courses

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|------------|--|
| 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 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 5425. | Modern European Art: Postimpressionism through Surrealism (3). |
| ARH 5440. | Modern European Art: Neoclassicism through Impressionism (3). |
| ARH 5527. | West African Arts and the Diaspora: Brazil, Haiti, the United States and Suriname (3). |

ARH 5556. Arts of Japan (3).
 ARH 5558. Arts of China (3).
 ARH 5586. The Arts of Oceania, Africa, and Native America (3).
 ARH 5587. Arts and Architecture of Polynesia (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 5685. American and Ethnic Folk Art (3).
 ARH 5725. History of Graphics (3).
 ARH 5795. Seminar in the Methods of Art History (3).

ARH 5797. Seminar in Museum Studies (3).
 ARH 5838. The Museum Object (3).
 ARH 5875. 20th Century Feminist Art Criticism (3).
 ARH 5896r. Seminar in the History and Criticism of Art (3).
 ARH 5907r. Directed Individual Study (1–5).
 ARH 5913r. Supervised Research (1–5). (S/U grade only.)
 ARH 5940r. Supervised Teaching (1–5). (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).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

**ARTS ADMINISTRATION,
 CENTER FOR:
 see *Graduate Bulletin***

Program in ASIAN STUDIES

COLLEGE OF SOCIAL SCIENCES

Director: Burton M. Atkins (Political Science); *Professors:* Bowman (Public Administration and Policy), Flanagan (Political Science), Kelsay (Religion), Lo (History), Olsen (Music), Ree (Modern Languages and Linguistics), Singh (History); *Associate Professors:* Bakan (Music), Erndl (Religion), Garretson (History), Ho (Anthropology), Kim (Political Science); *Assistant Professors:* Cuevas (Religion), Grant (History), Lan (Modern Languages and Linguistics); *Visiting Professor:* Koo (Economics); *Visiting Associate Professor:* Lopez (Religion) *Visiting Assistant Professor:* Lee (Art History)

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 areas-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 also combines area- or country-specific courses that give students the needed cultural immersion with more general comparative courses that provide them with the necessary intellectual tools, the 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 course work 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. As an interdisciplinary program, no minor is required, except in the case of the Asian studies/business option, in which the business course work constitutes a minor. Students interested in either of these degree program options should consult with the director of Asian studies.

Requirements

Asian Studies Major

Students majoring in the program are to construct their study program around four components: 1) a language requirement; 2) a history requirement; 3) area-specific course work which emphasizes one of two tracks; and 4) a concepts and theories tool requirement to be fulfilled in the students major track. The total hour requirements for a major are a minimum of twelve (12) semester hours in an approved area language plus an additional thirty-six (36) semester hours beyond the liberal studies requirements (with a grade of "C-" or better in each course) distributed across the history requirement and the two tracks.

Language Requirement

All students are required to take twelve (12) semester hours of course work in a relevant area language (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 both reading and speaking by either taking additional course work on the campus of The 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 The Florida State University. To encourage the achievement of language proficiency, language course-work hours taken beyond the twelve (12) semester hour minimum may be counted towards the required thirty-six (36) semester hours for the major.

History Requirement

Students are required to take a minimum of six (6) semester hours of work in the Asian studies history courses listed below.

Major and Minor Track Requirements

Students are to select either the social science track or the arts and humanities track as the major focus of their course work. Students are to take a minimum of twelve (12) semester hours of course work from among those area-specific courses listed for their major track and a minimum of six (6) semester hours of course work from among those area-specific courses listed for their minor track.

Concepts and Theories Tool Requirement

For each of the two tracks a larger number of concepts and theories courses are listed selected from the relevant disciplines. Students are to take a minimum of six (6) semester hours of course work from among those courses listed for their major track. Students should select these courses with some care in consultation with the program director. The courses should be narrowly focused on one or possibly two academic disciplines most relevant to the students primary Asia-related interests and career goals.

Asian Studies Major with a Minor 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 twelve (12) semester hours in an approved language (Chinese, Japanese, or Arabic), twenty-one (21) semester hours in Asian studies course work, and fifteen (15) semester hours in multinational business courses. The Asian studies course work is to be divided among the area-specific social science track courses (twelve [12] semester hour minimum) and Asian history (six [6] semester hour minimum). With this degree there is no concepts and theories requirement or arts and humanities minor track requirement. However, students may freely substitute language

and anthropology courses for history or social science courses in meeting the twenty-one (21) semester hour Asian studies requirement. Students are also to select between two fifteen (15) semester hour business course-work 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 students basic studies requirements. In addition, students opting for the international finance track must complete ACG 2021 as a prerequisite.

International Marketing Track

MAN 3600	Multinational Business Operations
MAR 3023	Basic Marketing Concepts
MAR 4156	Multinational Marketing

Choose **two**:

MAN 4605	Cross-Cultural Management (Prerequisite: MAN 3240)
MAN 4680r	Selected Topics in International Management

or

Another related course approved by the Asian studies program advisor.

International Finance Track

FIN 3244	Financial Markets, Institutions, and International Finance Systems
FIN 3403	Financial Management of the Firm
FIN 4604	Multinational Financial Management

MAN 3600	Multinational Business Operations
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Choose **one**:

MAN 4605	Cross-Cultural Management (Prerequisite: MAN 3240)
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or

MAN 4680r	Selected Topics in International Management
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or

Another related course approved by the Asian studies program advisor.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Asian Studies Minor

Students minoring in the program must complete eighteen (18) semester hours of Asian studies course work beyond the liberal studies requirement. In this case none of the broader comparative concepts and theories courses will count towards the eighteen (18) semester hour minimum. Students may select freely from all area-specific courses so long as at least three (3) semester hours are taken in history and each of the two tracks.

Definition of Prefix

ASN — Asian Studies

Undergraduate Courses

Note: descriptions of specific courses will be found under the individual departments in which they are taught.

History Courses

ASH 1044.	Middle Eastern History and Civilization (3).
ASH 3100.	History of Asia (3).
ASH 3200.	History of The Ancient Near East (3).
ASH 4223.	Modern Middle East (3).
ASH 4261.	Central Asia Since the Mongols (3).
ASH 4402.	China to 1898 (3).
ASH 4404.	China Since 1898 (3).
ASH 4442.	History of Modern Japan (3).
ASH 4520.	Traditional India (3).
ASH 4550.	Modern India (3).

Social Science Track—Area Specific

CPO 3034.	Politics of Developing Areas (3).
CPO 3403.	Comparative Government and Politics: The Middle East (3).
CPO 3512.	Political Development in East Asia (3).
CPO 3520.	Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3).
CPO 3541.	Politics of China (3).
CPO 3553.	Politics of Japan (3).
ECO 3933r.	Special Topics in Economics [Chinese Economy] (3).
GEA 3704.	East and Southeast Asia (3).
INR 4274.	Studies in International Politics: The Middle East (3).

Social Science Track—Comparative Concepts and Theories

CPO 2002.	Introduction to Comparative Government and Politics (3).
ECO 2000.	Introduction to Economics (3).
ECO 2013.	Principles of Macroeconomics (3).
ECO 2023.	Principles of Microeconomics (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 3540.	Economic Geography (3).
GEO 4471.	Political Geography (3).
INR 2002.	Introduction to International Relations (3).
INR 3603.	Theories of International Relations (3).

INR 4102.	American Foreign Policy (3).
INR 4702.	Political Economy of International Relations (3).
PAD 3003.	Public Administration in American Society (3).
PHI 3420.	Philosophy of the Social Sciences (3).
PHM 2300.	Introduction to Political Philosophy (3).
PHM 3331r.	Modern Political Thought (3).
PHM 3350.	Introduction to Marxist Philosophy (3).
PHM 3400.	Philosophy of Law (3).
PHM 4340r.	Contemporary Political Thought (3).
POT 3003.	Introduction to Political Thought (3).
PSY 2012.	General Psychology (3).
PUP 3002.	Introduction to Public Policy (3).
PUR 3002.	Public Relations Techniques (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).
SYO 4550.	Comparative Sociology (3).
SYP 3000.	Social Psychology of Groups (3).
SYP 3300.	Collective Action and Social Movements (3).
SYP 3540.	Sociology of Law (3).
SYP 4340.	Public Opinion Analysis (3).

Arts and Humanities Track—Area Specific

ANT 4362.	Peoples and Cultures of Southeast Asia (3).
ANT 4363.	Japanese Society and Culture (3).
ANT 4364.	Chinese Society and Culture (3).
ARH 3530.	The Arts of Asia (3).
ARH 3930r.	Special Topics in Art [The Aesthetics of Chinese Calligraphy] (1–3).
ARH 3930r.	Special Topics in Art [Buddhist Monuments of Asia] (1–3).
ARH 4540.	Arts of India (3).
ARH 4551.	Arts of China (3).
ARH 4554.	Arts of Japan (3).
CHI 3501.	Readings in Chinese Short Stories and Essays (3).
CHI 3502.	Readings in Chinese Drama (3).
CHI 4503.	Readings in Chinese History (3).
CHI 4930.	Special Topics (3).
HUM 3413.	Humanities: South Asian (3).
HUM 3416.	East Asian Humanities (3)
JPN 3230.	Readings in Japanese Short Stories and Essays (3).
MUH 4572.	Music of Japan (3).
REL 2315.	Religions of South Asia (3).
REL 2350.	Religions of East Asia (3).
REL 3335r.	Hindu Texts and Contexts (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.	The Islamic Tradition (3).
REL	4323.	Religions of the Ancient Near East (3).
REL	4333.	Modern Hinduism (3).

Arts and Humanities Track— Comparative 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).
GEO	4420.	Cultural Geography (3).

MUH	2051–2052.	Music Cultures of the World [three (3) hours each].
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).
REL	1300.	Introduction to World Religions (3).
REL	3142.	Religion, The Self and Society (3).
REL	3170.	Religious Ethics and Moral Problems (3).

General Courses

ASN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine (9) semester hours.

ASN 4930r. Special Topics in Asian Studies (1–3). May be repeated to a maximum of nine (9) semester hours as topics change.

ASN 4970r. Honors Thesis (1–6). Six (6) hours of credit must be taken in two (2) successive semesters and must result in the production of a thesis. May be repeated to a maximum of nine (9) semester hours.

Graduate Courses

Note: descriptions of the following courses can be found under the individual departments in which they are taught.

ASN	5906r.	Directed Individual Study: Chinese Civilization (1–4). (S/U grade only.)
ASN	5907r.	Directed Individual Study: Japanese Civilization (1–4). (S/U grade only.)
ASN	5910r.	Supervised Research (1–5). (S/U grade only.)
ASN	5935r.	Special Topics in Asian Studies (1–3).

For listings relating to graduate course work for thesis, master's comprehensive examination, and thesis defense, consult the *Graduate Bulletin*.

ASTRONOMY: see Physics

Department of BIOLOGICAL SCIENCE

COLLEGE OF ARTS AND SCIENCES

Chair: Thomas M. Roberts; *Associate Chair (Graduate Studies):* Bates; *Associate Chair (Undergraduate Studies):* Reeves; *Associate Chair (Curriculum Development):* Elam; *Professors:* Abele, Anderson, Bates, Caspar, Elam, Ellington, Fajer, Freeman, Gaffney, Herrnkind, Hofer, James, Livingston, Mariscal, Meredith, Moerland, Outlaw, Quadagno, Roberts, Roux, Swofford, Taylor, Travis, Tschinkel; *Associate Professors:* Chase, Epstein, Hurt, L. Keller, T. Keller, Levitan, Miller, Reeves, Trombley, Winn; *Assistant Professors:* Bass, Erickson, D. Fadool, J. Fadool, Hansen, Houle, Inouye, Steppan, Teem, Underwood, Wulff; *Service Professor:* Easton; *Professors Emeriti:* Beidler, Collier, DeBusk, deKloet, Elliott, Friedmann, Heard, Homann, R. Johnson, Roeder, Short, Williams, Yerger

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; mathematical and computational biology; physiology and neuroscience; invertebrate and vertebrate zoology; plant sciences; and pre-professional health sciences. A special certificate program in marine biology and living resource ecology is also offered. 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.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. BSC 1010/1010L*;
2. BSC 1011/1011L*;
3. CHM 1045/1045L;
4. CHM 1046/1046L;
5. CHM 2210/2210L*;
6. CHM 2211/2211L*;
7. MAC X311* and,
8. MAC X312*.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Although MAC 2233 Calculus for Business will be accepted as a mandated equivalent to MAC 2311 Calculus with Analytical Geometry I, it is not recommended as preparation for a degree in the sciences. MAC 2233 is not acceptable as a prerequisite for MAC 2312 Calculus with Analytical Geometry II, PHY 2048C/PHY 2049C General Physics or other advanced courses in physics, chemistry, engineering, and meteorology.

Requirements for a Major in 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 2010/2010L (Biological Science I with lab) and BSC 2011/2011L (Biological Science II with lab);
- b) Satisfactory completion ("C–" or better) of CHM 1045C and CHM 1046C or CHM 1050/1050L and CHM 1051/1051L (General Chemistry I and II with labs); and
- c) A minimum combined 2.0 GPA (no forgiveness) in all biology, chemistry, physics, mathematics, and statistics courses, and their prerequisites, that are applicable to the major, from any institution attended.

2. Academic Performance.

- a) All courses applicable to the major, including biological science, chemistry, physics, mathematics, and statistics must be completed with a grade of "C–" or better;

b) A student who has earned more than five unsatisfactory grades (U, F, D-, D, D+) in courses required for the major in biological science (biological science, chemistry, physics, mathematics, and statistics) and their prerequisites at The Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate from The Florida State University with a degree in biological science;

c) Designation, continuation, and graduation as a biological science major requires a minimum combined 2.0 GPA (no forgiveness) in all courses taken for the major from any institution, including biology, chemistry, physics, mathematics, and statistics, and their prerequisites; and

d) A biological science major who applies for readmission to the college must meet the biological science degree requirements of the catalog in force on the date of readmission.

3. **Co-op and Transient Study.** The Florida State University biological science majors who intend to take courses for the major (biological science, chemistry, physics, mathematics, 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.

4. **Required Courses in Biological Science.** Thirty-eight (38) semester hours of biological science course work are required for the degree. At least twenty (20) of the required semester hours must be taken in residence at The Florida State University. The following shall be included in the thirty-eight (38) semester hours:

- Nine (9) semester hours (prerequisite to all major course work in biology): BSC 2010/2010L, 2011/2011L;
- PCB 3063, General Genetics (3);
- BOT 3015, Plant Biology (2);
- BSC 3402L, Experimental Biology Laboratory (2);
- PCB 4674, Evolution (3);
- At least one course from two of the three areas:

Area I: Cell and Molecular Biology

MCB	4403	Prokaryotic Biology and 4403L Laboratory (3,2)
PCB	3134	Cell Structure and Function (3)
PCB	4024	Molecular Biology (3)
PCB	4253	Animal Development (3)

Area II: Physiology

BOT	4503	Plant Physiology (3)
PCB	3743	Vertebrate Physiology (3)
PCB	4723	General and Comparative Animal 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 (38) semester hour requirement. No more than six (6) semester hours of honors work in biological science (BSC 4970r), six (6) semester hours of directed individual study (BSC 4900r), one (1) semester hour of undergraduate supervised teaching (BSC 4945), and two (2) semester hours of senior tutorial (BSC 4931) can be used to meet the thirty-eight (38) hour requirement; and

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).

5. Required Courses in Collateral Areas

a) **General Chemistry:** Two semesters of general chemistry with laboratory equivalent to CHM 1045C plus CHM 1046C or CHM 1050/1050L plus CHM 1051/1051L;

b) **Organic Chemistry:** Two semesters of organic chemistry equivalent to CHM 2210 and 2211. Many health professions programs 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 2312 or MAC 2311, plus one semester of statistics for biology (STA 2171). One (1) semester hour of bio-calculus laboratory also is required;

d) **Physics:** Two semesters of general physics with laboratories equivalent to PHY 2048C and 2049C (prerequisite of MAC 2311) or two semesters of college physics with laboratories equivalent to PHY 2053C and 2054C (prerequisites are MAC 1114 and MAC 1140).

6. **Minor.** The required collateral courses in chemistry constitute a chemistry minor and fulfill the College of Arts and Sciences requirement for a minor; however, the student may select other minors in consultation with an advisor.

Marine Biology Certificate Program in Living Marine Resource Ecology (Upper Division Only)

A Certificate Program in Marine Biology and Living Marine Resource Ecology provides interested students with both a challenging academic pro-

gram and substantive hands-on experiences in the field. The program prepares students to pursue professional careers in the application of ecology to significant resource issues of the marine environment. The certificate requirements assure a strong knowledge base in relevant biological disciplines, hands-on research experience on marine organisms and habitats, and an awareness of major problems and solutions of marine resource ecology now confronting science and society.

Prerequisites for the certificate program include: (1) completion of prerequisites required for the major in biological science (BSC 2010/2010L, 2011/2011L; CHM 1045C, 1046C, and (2) a 3.0 GPA or better in the 2000-level biological science core courses (BSC 2010/2010L and BSC 2011/2011L). Students enrolling in the program will be required to complete at least sixteen (16) semester hours of specified course work as described below, and must maintain a 3.0 GPA or better in courses used for the certificate. Students wishing to enter the program retroactively may do so by the first semester of their senior year at the latest.

The certificate offers internships, scholarships, and other instructor programs that provide unique professional development opportunities for students interested in this field. These opportunities allow students to work closely with scientists in a student/mentor relationship, or to attend remote training or study programs during the summer. Selection for scholarship awards is based on academic qualifications, demonstrated interest in fisheries ecology, marine biology, and zoology, and relevance to the applicant's biological and career interests. Additional information is available through the Academic Advising Office and the department's Institute for Fishery Resource Ecology. For more information about the certificate program and list of required courses, please contact the Academic Advising Office.

Mathematical and Computational Biology

The Florida State University is one of 44 research universities that have received awards from the Howard Hughes Medical Institute to enhance and improve undergraduate education. A special undergraduate concentration is being developed in mathematical and computational biology, which includes training in bioinformatics and many other aspects of modern computational biology (genomics and proteomics.) The concentration includes course work in mathematics, programming and bioinformatics. In addition, a select group of students pursuing this concentration will be designated “Hughes Fellows” in their senior year and will receive financial support to help offset living expenses and other educational costs.

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 Program and Honor Societies” chapter of this *General Bulletin*.

Science Teaching

Students interested in secondary education science teaching should contact the Office of Secondary Science and/or Mathematics Teaching within the department. For more information, see that chapter of this *General Bulletin*.

Graduate Study

The Department of Biological Science offers work leading to the master of science and doctor of philosophy degrees; consult the *Graduate Bulletin* for details.

Requirements for a Minor in Biological Science

A minimum of twelve (12) semester hours of biological science courses approved for major credit, including BSC 2010/2010L and BSC 2011/2011L and one additional biology course that counts in the major (PCB 3063 recommended); a minimum of four (4) semester hours of the twelve (12) semester hours must be taken at The Florida State University. Grades below “C–” will not be accepted for minor credit.

Definition of Prefixes

BCH	—	Biochemistry
BOT	—	Botany
BSC	—	Biological Science
ISC	—	Interdisciplinary Natural Science
MCB	—	Microbiology
PCB	—	Process Biology
PSB	—	Psychobiology and Neuroscience
SCE	—	Science Education
ZOO	—	Zoology

Undergraduate Courses

Courses Not for Major or Minor Credit

BSC 1005. **General Biology for Nonmajors (3).** Four selected topics in contemporary biology.

BSC 1005L. **General Biology Laboratory for Nonmajors (1).** May be taken concurrently with lecture or subsequent to completion of lecture with passing grade.

BSC 1005C. **General Biology for Nonmajors (4).**

BSC 1056C. **Underwater Environments of the Big Bend (3).** (S/U grade only.) This journey into the unique and unusual ecosystem of North Florida features the area’s underwater systems—rivers, springs, salt marshes, bays and beaches. Saturday trips include Cypress Springs, Dixie County grass beds, Rainbow River, St. Joseph Bay, the Panama City Jetties or other sites as conditions permit. This course requires swimming skills, plus snorkel, mask and fins.

BSC 1058C. **Coastal Environments of the Big Bend (3).** (S/U grade only.) Explore marine life through classroom lectures and six field trips that will introduce a new ecological dimension to the way you view the marshes and beaches of the North Florida coast. Ochlockonee Bay, a local marine aquarium, the St. Marks National Wildlife Refuge, and Fiddler’s Point are a part of the Saturday field trip itinerary.

ISC 3076. **Science, Technology, and Society (3).** The role played by science and technology in American society is considered by examining: the organization of the scientific enterprise, the realities of scientific life vs. portrayals of scientists in the media, how science is funded, its economic and its intellectual significance, dilemmas posed by progress in science and technology, and societal conditions under which science flourishes. This course cannot be used as credit toward a major or a minor in a science department. At least junior standing or permission of instructor is required.

MCB 2004. **Microbiology for Health Services (3).** Corequisite: MCB 2004L. 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. Microbiological techniques including the isolation, typing and identification of bacteria, properties of pathogenic bacteria, and food microbiology.

PCB 2099. **Human Physiology (3).** A survey of the major systems and their regulation in normal function and disease in the human body.

SCE 4939r. **Seminar in Contemporary Science, Mathematics, and Science Education (1).** Presentations of contemporary and interesting issues in science, mathematics, or teaching methods. Content will vary from semester to semester. May be repeated to a maximum of four (4) semester hours.

Courses for Major Credit

Note: all 3000- and 4000-level biological science courses have the following minimum prerequisites: BSC 2010/2010L, 2011/2011L; CHM 1045C and 1046C. Additional prerequisites, if any, are included in the course listing.

Botany

BOT 3015. **Plant Biology (2).** Prerequisites: BSC 2011/2011L; CHM 1046C. Introduction to evolutionary relationships, natural history, ecological adaptations, and physiology of plants, fungi, autotrophic protista, and prokaryotes.

BOT 3015L. **Plant Biology Laboratory (1).** Prerequisites: BSC 2011/2011L; CHM 1046C. Corequisite: BOT 3015. Anatomy, development, and morphology and life cycles of autotrophs and fungi and other osmotrophs.

BOT 3143C. **Field Botany (4).** Prerequisites: BSC 2011/2011L; CHM 1046C. Introductory plant taxonomy with emphasis on laboratory and field study. Orientation to principles of identification, classification, and rules of botanical nomenclature.

BOT 3800. **Elementary Botany: Plants and Man (3).** Prerequisites: BSC 2011/2011L; CHM 1046C. Man’s uses of plants, plant exploration and early history, plant geography, some basic botany.

BOT 4373C. **Biology of Higher Plants (4).** Prerequisites: BSC 2011/2011L; CHM 1046C. Morphology, anatomy, and reproductive biology of ferns, fern allies, gymnosperms, and flowering plants; basic plant anatomy.

BOT 4394. **Plant Molecular Biology (3).** Prerequisites: BOT 3015; BSC 2010/2010L, 2011/2011L; CHM 1045C, 1046C. Pre- or Corequisite: PCB 3063. This course explores molecular biology and biotechnology of plant growth and development.

BOT 4503. **Plant Physiology (3).** Prerequisites: BOT 3015; BSC 2011/2011L; CHM 1046C, 2210; PCB 3134 recommended. Introduction to the regulatory systems in plants.

BOT 4503L. **Plant Physiology Laboratory (1).** Prerequisites: BOT 3015; BSC 2011/2011L; CHM 1046C. Corequisite: BOT 4503.

Biological Science

BSC 2010. **Biological Science I (3).** Corequisites or prerequisites: BSC 2010L; CHM 1045C. Basic chemistry, energetics, metabolism, and cellular organization; molecular genetics and information flow; animal and plant function.

BSC 2010L. **Biological Science I Laboratory (1).** Corequisite or prerequisite: CHM 1045C. Corequisite: BSC 2010. This laboratory furnishes tools and techniques used to

visualize, quantify, analyze biological phenomena, including experimental design and execution, recording of data, and graphic and statistical analysis of data.

BSC 2011. **Biological Science II (3).** Prerequisites: BSC 2010/2010L. Reproduction and development, transmission (Mendelian) genetics, population biology, ecology, and evolution.

BSC 2011L. **Animal Diversity Laboratory (2).** Prerequisites: BSC 2010/2010L. Introduction to animals, sponges, cnidarians, flatworms and pseudocoelomates, annelids, molluscs, arthropods, echinoderms, and chordates.

BSC 3052. **Conservation Biology (3).** Prerequisites: BSC 2011/2011L; CHM 1046C. 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 3101. **History of Biology (3).** Prerequisites: BSC 2011/2011L; CHM 1046C; junior or senior standing. A survey of the development of biological thought and evidence from ancient times to the present.

BSC 3312. **Marine Biology (3).** Prerequisites: BSC 2011/2011L; CHM 1046C. Marine geology, chemistry of the oceans, oceanic circulation, oceanographic techniques, the marine environment and marine life.

BSC 3402L. **Experimental Biology Laboratory (2).** Prerequisites: BSC 2011/2011L; CHM 1046C. Majors only. Methodology of biological experimentation, data analysis, and reporting using selected topics (see academic advising office for selected topics offered each semester).

BSC 3930. **Seminar in Biological Frontiers (1).** (S/U grade only.) Prerequisite: BSC 2011/2011L. 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.

BSC 3949r. **Cooperative Education Work Experience (0).** (S/U grade only.)

BSC 4514. **Aquatic Pollution Biology (3).** Prerequisites: BSC 2011/2011L; CHM 1046C. Various aspects of environmental alteration from point and nonpoint sources on aquatic systems.

BSC 4613. **Systematics (3).** Prerequisites: BSC 2011/2011L; CHM 1046C. History of systematic theory; methods of phylogenetic analysis including distance, parsimony, and likelihood; classification of the diversity of life; the comparative method; analysis of within species variation.

BSC 4833C. **Radiation Biology (3).** Prerequisites: BSC 2011/2011L; CHM 1046C; permission of instructor. Effects of ionizing radiation on biological systems at the cellular, molecular, organismal, organ, and environmental levels.

BSC 4900r. **Directed Individual Study (1–4).** Prerequisites: BSC 2011/2011L; CHM 1046C; a combined 3.0 GPA in biology, chemistry, physics, math, and statistics courses applied to the major; permission of biological science faculty member; permission of Department of Biological Science Advising Office at The Florida State University. Special topic supervised study or research participation in the area of the faculty members research. Graduate students may not register for this course. A maximum of six (6) semester hours may be applied to biological science major credit.

BSC 4931r. **Senior Tutorial in Biological Science (1).** (S/U grade only.) Prerequisites: BSC 2011/2011L; CHM 1046C; senior standing (90+ hrs.) Selected topics in contemporary biological science; maximum enrollment of five students in each tutorial. Repeatable one time to a maximum of two (2) semester hours credit which may be applied to biological science credit.

BSC 4933r. **Selected Topics in Biological Science (1–4).** Prerequisites: BSC 2011/2011L; CHM 1046C; other courses as specified; junior or senior standing. May be repeated to a maximum of eight (8) semester hours credit.

BSC 4934r. Selected Topics in Applied Biology (1–4). (S/U grade only.) Prerequisites: BSC 2011/2011L; CHM 1046C. May be repeated to a maximum of eight (8) semester hours. Some sections are not for major credit.

BSC 4937. Seminar in Living Marine Resource Ecology (1). (S/U grade only.) Prerequisites: BSC 2010/2010L, 2011/2011L; CHM 1045C, 1046C; permission of instructor. Seminar course in marine resource ecology designed to introduce students to a broad array of current research priorities and interests in marine ecology. Students will have the opportunity to meet with resource managers and scientists from both the biological and social fields. Lecture topics range from life history studies of marine fish to the economic consequence of marine policy.

BSC 4940. Research Internship in Marine Biology (3–9). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3043; junior or senior standing; 3.0 GPA in biology; a course in the area of research; and written approval of the associate chair. 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 (9) semester hours of credit, of which four (4) semester hours would apply to the biological science major. Offered during the summer only.

BSC 4945. Undergraduate Supervised Teaching (1). (S/U grade only.) Prerequisites: BSC 2011/2011L; CHM 1046C; senior standing and permission of instructor. A maximum of one (1) semester hour may be applied to biological science major credit.

BSC 4970r. Honors Work in Biological Science (1–6). Prerequisite: Admission to the departments honors in the major program. Participation in a supervised research problem. May be repeated to a maximum of nine (9) semester hours, of which six (6) semester hours may be applied to biological science major credit.

Microbiology

MCB 4403. Prokaryotic Biology (3) Prerequisites: BSC 2011/2011L; CHM 1046C, 2210; PCB 3063. Corequisite: MCB 4403L. 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). Prerequisites: BSC 2011/2011L; CHM 1046C, 2210; PCB 3063. Corequisite: MCB 4403. 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 4603. Environmental Microbiology (3). Prerequisites: BSC 2011/2011L; CHM 1046C; MCB 4403. The applied aspects of environmental microbiology. Topics include the basic principles of microbial ecology and biotechnological aspects of microbes and the environment. Biomediation of pollutants, biotreatments of liquid and solid wastes, and microbial control of pests.

Process Biology

PCB 3043. General Ecology (3). Prerequisites: BSC 2011/2011L; CHM 1046C. Population biology, population growth; community processes, succession, nutrient cycling and energy flow, species interactions, ecological efficiency, biogeographical ecology.

PCB 3063. General Genetics (3). Prerequisites: BSC 2011/2011L; CHM 1046C. 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). Prerequisites: BSC 2011/2011L; CHM 1046C. Cellular chemistry and physiology, morphology, and function of cellular organelles; cellular motility, growth, division, communication, and regulation.

PCB 3743. Vertebrate Physiology (3). Prerequisites: BSC 2011/2011L; CHM 1046C. Physiological systems of vertebrates with emphasis on mammals. Mechanisms underlying physiological processes and the physico-chemical principles upon which they depend.

PCB 4024. Molecular Biology (3). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3063; PCB 3134 recommended. 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). Prerequisites: BSC 2011/2011L; CHM 1046C. Corequisite: PCB 4024.

PCB 4042. Perspectives in Ecology and Evolutionary Biology (3). Prerequisites: BSC 2011/2011L; CHM 1046C. Lecture, discussion, and reading in advanced concepts of ecology and evolutionary biology. Enrollment by permission of instructor.

PCB 4233. Immunology (3). Prerequisites: BSC 2011/2011L; CHM 1046C; CHM 2210; PCB 3063, 3134, or permission of instructor. Analysis of the tissues, cells, and molecules of the immune system and their relationships to disease and transplantation.

PCB 4233L. Laboratory in Immunology (1). Prerequisites: BSC 2011/2011L; CHM 1046C; Corequisite: PCB 4233.

PCB 4253. Animal Development (3). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3063. Discusses a number of topics, including fertilization, early embryonic events, organogenesis, differentiation, morphogenesis, cytoplasmic localization, determination, and differential gene expression.

PCB 4253L. Animal Development Laboratory (1). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3063; Corequisite: PCB 4253. Laboratory experiments regarding sea urchin fertilization, frog and chick early development, gene expression, and cell-cell interactions.

PCB 4341C. Advanced Field Biology (3). Prerequisites: BSC 2011/2011L; CHM 1046C; permission of instructor. Emphasis on conducting a series of ecological research projects in the field.

PCB 4514. Advanced Genetics and Molecular Biology (3). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3063. Mendelian genetics; transcriptions, DNA repair; plasmids; insertion elements; regulation of gene expression.

PCB 4674. Evolution (3). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3063; senior standing (90+ hrs.) 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 4723. General and Comparative Animal Physiology (3). Prerequisites: BSC 2011/2011L; CHM 1046C, 2210. The physiological and biochemical interactions of animals with their respective environments. Emphasis on non-mammalian vertebrate and invertebrate systems.

PCB 4731L. Experimental Physiology (2). Prerequisites: BSC 2011/2011L; CHM 1046C; a course in physics. Exploration of physiological mechanisms in nerve, muscle, heart, and central nervous systems, with emphasis on electrophysiological methods.

PCB 4843. Fundamentals of Neuroscience (3). Prerequisites: BSC 2011/2011L; CHM 1046C; PCB 3134, 3743, or 4723. This course will emphasize cellular and molecular approaches to neuroscience and brain function and will emphasize simple model systems including invertebrates.

Zoology

ZOO 3203. Advanced Invertebrate Zoology (2). Prerequisites: BSC 2011/2011L; CHM 1046C; and one of the following: PCB 3043 or 3063, or ZOO 3713C, or permission of instructors. Corequisite: ZOO 3203L. Structure, function, behavior, and evolution of the invertebrate phyla, especially those taxa living in the sea.

ZOO 3203L. Advanced Invertebrate Zoology Laboratory (2). Prerequisites: BSC 2011/2011L; CHM 1046C; and one of the following: PCB 3043 or 3063, or ZOO 3713C, or permission of instructor. Corequisite: ZOO 3203. 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). Prerequisites: BSC 2011/2011L; CHM 1046C. Emphasis on form and function and origin and evolution of structure.

ZOO 4204C. Biology of Higher Marine Invertebrates (5). Prerequisites: BSC 2011/2011L, and 3312 or PCB 3043 or ZOO 3203/3203L; CHM 1046C. Biological specializations of crustaceans, mollusks, and echinoderms, including life history, behavior, ecology, biomechanics, and environmental adaptations.

ZOO 4232. Parasitology (3). Prerequisites: BSC 2011/2011L; CHM 1046C. The natural history, ecology, evolution, pathogenesis, epidemiology, and control of protozoan and animal parasites of people.

ZOO 4232L. Parasitology Lab (2). Prerequisites: BSC 2011/2011L; CHM 1046C. Pre- or corequisite: ZOO 4232. The morphology and anatomy of protozoan and animal parasites of people. Collection, preservation, and staining methods for selected parasites of various hosts.

ZOO 4343C. Biology of the Lower Vertebrates (4). Prerequisites: BSC 2011/2011L; CHM 1046C. Systematics, ecology, and evolution of fishes, amphibians, and reptiles.

ZOO 4353C. Biology of the Higher Vertebrates (4). Prerequisites: BSC 2011/2011L; CHM 1046C; permission of instructor. Systematics, ecology, and evolution of birds and mammals.

ZOO 4513. Animal Behavior (4). Prerequisites: BSC 2011/2011L; CHM 1046C. The behavior of animals: modern perspectives.

ZOO 4753C. Histology (4). Prerequisites: BSC 2011/2011L; CHM 1046C. The microscopic anatomy and functions of the cells, tissues, and glands composing the organs and systems of humans.

ZOO 4823. Insect Biology (3). Prerequisites: BSC 2011/2011L; CHM 1046C. Morphology, classification, natural history, physiology, and evolution of insects.

ZOO 4823L. Insect Diversity of North Florida (2). Prerequisites: BSC 2010/2010L, 2011/2011L; CHM 1045C, 1046C; MAC 2311. Pre- or Corequisite: ZOO 4823. Topics in this course include collection, keying, and curation of local insects.

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 5938r. Selected Topics in Botany (1–4).

BOT 6936r. Seminar in Botany (2). (S/U grade only.)

Biological Science

BSC 5409. Biophysical Principles of Biological Techniques (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.)

Microbiology

- MCB 5505. Virology (3).
 MCB 5936r. Selected Topics in Microbiology (1–4).
 MCB 6936r. Seminar in Microbiology (2). (S/U grade only.)

Process Biology

- PCB 5047. Perspectives in Ecology and Evolutionary Biology (3).
 PCB 5137. Advanced Cell Biology (3).
 PCB 5345C. Advanced Field Biology (3).
 PCB 5425. Population Ecology (3).
 PCB 5447. Community Ecology (3).
 PCB 5525. Molecular Biology (3).
 PCB 5595. Advanced Molecular Biology (3).
 PCB 5675. Advanced Evolutionary Biology (3).
 PCB 5746. Mammalian Physiology I (3).
 PCB 5747. Mammalian Physiology II (3).
 PCB 5785. Biology of Muscle (3).

- PCB 5795. Sensory Physiology (3).
 PCB 5835. Neurophysiology (3).
 PCB 5846. Neurocytology and Neurochemistry (4).
 PCB 5936r. Selected Topics in Genetics and Cell Biology (1–4).
 PCB 5937r. Selected Topics in Physiology (1–4).
 PCB 5938r. Selected Topics in Ecology and Evolutionary Biology (1–4).
 PCB 6155C. Microscopy and Electron Microscopy for the Biologist (3).
 PCB 6936r. Seminar in Genetics and Cell Biology (2). (S/U grade only.)
 PCB 6937r. Seminar in Physiology (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 (4).
 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 5932r. Selected Topics in Marine Biology (1–4).
 ZOO 5935r. Selected Topics in Zoology (1–4).
 ZOO 6933r. Seminar in Marine Biology (2). (S/U grade only.)
 ZOO 6934r. Seminar in Zoology (2). (S/U grade only.)

For listings relating to graduate course work for thesis, dissertation, and masters and doctoral examinations and defense, consult the *Graduate Bulletin*.

Interdepartmental BRITISH STUDIES LONDON CENTER MINOR

COLLEGE OF ARTS AND SCIENCES

Coordinator: John B. Brennan (International Programs)

The British Studies London Center 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 British Studies

The interdisciplinary minor requires the completion of fifteen (15) semester hours in courses approved by the British Studies London Center Minor coordinating committee. **At least nine (9) semester hours of approved courses must be taken while the student is in residence at the London Study Center.** A maximum of nine (9) semester hours may be counted in any single academic discipline. Students who intend to minor in British Studies should declare this intention with the Senior Admissions/Registration Officer of International Programs at the end of his/her semester in London.

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 2012 British Authors: Beginnings to 1790 (3)
 ENL 2022 British Authors: Early Romantics to the Present (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 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 3532 England, the Empire, and the Commonwealth (3)
 EUH 4500 England in the Middle Ages (3)
 EUH 4510 Tudor England (3)
 EUH 4512 Stuart England (3)

- EUH 4544 Sex and Class in England, 1750–1914 (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.

- 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)
 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 Workshop (3)
 ENG 3110 Film Genres (3)
 ENG 3931r Topics in English (1–3)
 ENG 4932r Studies in English (1–3)
 EUH 2000 Ancient and Medieval Civilizations (3)
 EUH 3420 Rise and Fall of Classical Civilization (3)
 FIL 2001 Introduction to Film (3)
 FOW 3240 Literature and Sexuality (3)
 GEA 1000 World Geography (3)
 GEO 1331 Environmental Science (3)
 GEO 1400 Human Geography (3)
 HUM 3321 Multicultural Dimensions of Film and 20th-Century Culture (3)
 HUM 4931r Topics in the Civilization of Britain or Italy (3)

IND	4131r	History of Interiors II (3)	MUH	2012	Music in Western Culture, 19th and 20th Centuries (3)
INR	2002	Introduction to International Relations (3)	REL	1300	Introduction to World Religions (3)
INR	3502	International Organization (3)	REL	3145	Gender and Religion (3)
INR	3603	Theories of International Relations (3)	SYG	2010	Social Problems (3)
ISS	4931r	Special Topics (1–3)	THE	2083r	Theatre Problems (3)
LIT	2081	Contemporary Literature (3)	THE	3061	Introduction to Theatre in London (3)
LIT	2189	Introduction to Global Literature in English (3)	THE	3931r	Special Topics (3)
LIT	3043	Modern Drama (3)	THE	4111	European Theatre History II (3)
LIT	3383	Women in Literature (3)	All other courses, including special topics, directed individual studies, and internships, offered at the London center may be counted provided the British Studies London Center Minor coordinating committee has given prior approval for their inclusion in the minor. In addition, special topics courses offered on The Florida State Uni-		
LIT	4033	Modern Poetry (3)			
MUH	2011	Introduction to Music History— Music Appreciation: 18th and 19th Centuries (3)			

versity campus on a one-time basis may be counted if they are approved by the coordinating committee. To have such courses considered, petition the Coordinating Committee, A5500 University Center.

BUSINESS LAW: see Risk Management/ Insurance, Real Estate, and Program in Business Law

CELL BIOLOGY: see Biological Science

Department of CHEMICAL ENGINEERING

FAMU—FSU COLLEGE OF ENGINEERING

Chair: Michael H. Peters; *Professors:* Humphries, Locke, Peters; *Associate Professors:* Alamo, Arce, Chella, Palanki, Telotte, Vinals; *Assistant Professors:* Gibbs, Kalu, Ma, Malvadkar, Wesson; *Visiting Assistant Professor:* Chin; *Adjunct Professor:* Schreiber; *Associate in Research:* Finney; *Affiliate Faculty:* Bertram, Chen, Garmestani, Gielesse, Haik

The vision of the Department of Chemical Engineering as an educational unit is to be recognized as a place of excellence in fundamental chemical engineering education and life-long learning, and to maintain a national research leadership in several 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 (ABET) and other professional societies. The departmental undergraduate committee is responsible for planning, maintaining and reviewing its curricula content in accordance with the perceived demands of its stakeholders. The department chair and the degree program coordinators implement the curricula as determined by the department curriculum committee, while consulting with the faculty as needed.

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 production. The chemical engineer is employed in the manufacture of inorganic chemicals (e.g., acids, alkalis, pigments, fertilizers), organic chemicals (e.g., pet-

rochemicals, polymers, fuels, propellants, pharmaceuticals, speciality chemicals), biological products (e.g., enzymes, vaccines, biochemicals, biofuels), and materials (e.g., ceramics, polymeric materials, paper, biomaterials).

The undergraduate curriculum emphasizes the application of computer analysis in chemical engineering, as well as laboratory instruction in modern, state-of-the-art facilities in the transport phenomena/measurements and unit operations laboratories. In order to meet newly developed interests in chemical engineering and related fields, elective courses are available in bioengineering, polymer engineering, materials engineering, molecular engineering, electrochemical engineering, environmental engineering, and biomedical engineering, with additional courses under development.

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 sees ABET Engineering Criteria (EC) 2000 as encouraging 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.

Program Educational Objectives

The Department of Chemical 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 Engineering has identified the

following four departmental educational objectives for the Bachelor of Science Degree in Chemical Engineering:

1. To educate students in the design and analysis of chemical processes and systems;
2. To train students on issues of product quality, safety, and environmental impact;
3. To develop student professionalism in the field of chemical engineering through departmental and classroom activities and student involvement in local and national professional organizations; and,
4. To provide educational diversity to meet the needs of emerging sub-fields within chemical engineering and related disciplines.

Program Outcomes

These objectives are further expanded and detailed through eleven student outcomes:

- a. An ability to apply a knowledge of mathematics, physics, chemistry, and chemical engineering (C3.a);
- b. An ability to design and conduct experiments, and analyze and interpret data of importance to the design and analysis of chemical processes (C3.b);
- c. An ability to design and analyze new and existing chemical systems and processes to meet desired needs (C3.c);
- d. An ability to function on multi-disciplinary teams (C3.d);
- e. An ability to identify, formulate, and solve engineering problems (C3.e);
- f. An understanding of professional and ethical responsibility (C3.f);
- g. An ability to communicate effectively (C3.g);
- h. The broad education necessary to understand the impact of engineering solutions in a global and societal context (C3.h);
- i. An ability to engage in life-long learning (C3.i);
- j. A knowledge of contemporary issues (C3.j); and,
- k. An ability to use the techniques, skills, and modern engineering tools necessary for chemical engineering practice (C3.k).

Note: identifiers beginning with C3, such as C3.a above, refer to specific outcomes in Criterion 3 of the ABET Engineering Criteria 2000. They indicate the ABET outcome which the Department of Chemical Engineering outcome addresses.

The department sees ABET Engineering Criteria (EC) 2000 as encouraging 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.

Undergraduate Laboratory and Computational Facilities

Undergraduate teaching laboratories in measurements, transport phenomena, unit operations, and process control are designed to augment classroom instruction. Our undergraduate chemical engineering laboratory experiments feature a 20 stage distillation column for the study of organic chemical separations, several reactor vessels for the design and analysis of continuous reactor configurations, and a liquid/liquid continuous extraction process system, to name a few. All experiments include computer data control and computer data acquisition systems in order to provide a "real world" experience for our students.

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 either timeshared remote terminals using UNIX or desktop personal computers connected to college-wide servers. Within the Department of Chemical Engineering, undergraduate students working on research projects utilize laboratory computer terminals connected to the college servers and PCs dedicated to research use. The department requires the use of computers for data acquisition, process control, experimental design, report writing, and homework problem calculations in the chemical engineering curriculum.

Areas of Study (Majors)

Five diverse areas of study are offered by the department. These major options (chemical, environmental, bioengineering, materials, and biomedical engineering) reflect new directions in the broader field of chemical engineering.

Chemical. The most common major, it prepares students for employment or further study in traditional areas of chemical engineering (described above.)

Environmental. Chemical engineers will play a pivotal role in developing future pollution prevention strategies by improving and replacing current products and processes. Upcoming efforts will focus on integrating the design and production of goods with their ultimate disposal and reuse. Chemical engineers will provide the means to not only prevent pollution, but move to the concept of creating a sustainable society where most products are recycled repeatedly.

Bioengineering. Biochemical engineering is a highly interdisciplinary field that has arisen from the application of chemical engineering principles to the production of materials derived from living systems. A number of processes and products, including fermentation for making alcohols and various foods, the efficient use of enzymes for tanning leather, the use of bacteria for biological waste treatment, and the production of antibiotics from mold culture, have been developed and utilized in the past. Bioengineering combines biochemical engineering with other aspects of life sciences applied to engineering, such as pharmacology and biotechnology.

Materials. 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.

Biomedical Engineering. 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 subdisciplines of chemical engineering, the field is a rapidly evolving one 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. A bachelor's degree can provide employment opportunities in biotechnology companies, hospitals and clinics, and governmental research and monitoring laboratories. A biomedical engineering undergraduate degree provides background for graduate and/or medical school, especially in view of the increasing technological complexity of medical education. Many chemical 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 this field of study, the major 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.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and

click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. ENC 1101;
2. ENC 1102;
3. MAC 2311*;
4. MAC 2312*;
5. MAC 2313*;
6. MAP 2302;
7. CHM 1045/1045L*;
8. PHY 2048/2048L;
9. PHY 2049/2049L;
10. Six (6) semester hours in humanities;
11. Six (6) semester hours in social science;
12. Three (3) additional semester hours in humanities **or** social science.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a BS Degree in Chemical Engineering

A program of study encompassing at least one hundred thirty-one (131) 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 better in all engineering courses, and must achieve a 2.0 grade point average (GPA) in the forty-five (45) semester hours of chemical engineering major courses. In addition, students must achieve a grade of "C-" or better in all courses transferred into the Department of Chemical Engineering. Students should contact the department for the most up-to-date information concerning the chemical engineering curriculum requirements.

Five majors exist within the chemical engineering bachelor's degree program. These include chemical engineering, environmental engineering, bioengineering, materials engineering and biomedical engineering. Most of the curriculum is common to all five 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 and humanities/fine arts electives are to be selected to satisfy the liberal studies requirement and the College of Engineering's social science and humanities national accreditation (ABET) requirement. Students in all five 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	Introduction Process Analysis and Design for Chemical Engineers (3)

or

MAP	3305	Engineering Mathematics 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 (2)
PHY	2048C	General Physics A (5)
PHY	2049C	General Physics B (5)
ECO	2023	Economics of the Price System (3)
ECH	3821	Computer Applications in Chemical Engineering (3)

or

CGS	3408	C for Nonspecialists (3)
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Advanced Chemistry

CHM	2210	Organic Chemistry I (3)
CHM	2211	Organic Chemistry II (3)
CHM	4410	Physical Chemistry I (3)
CHM	4410L	Physicochemical Measurements and Techniques I (1)
CHM	4411	Physical Chemistry II (3)
CHM	XXXX	Advanced Chemistry Elective (3)

General Engineering

EGN	1004L	First Year Engineering Lab (1)
EGM	3512	Engineering Mechanics (4)
EEL	3003	Introduction to Electrical Engineering (3)
EEL	3003L	Introduction to Electrical Engineering Laboratory (1)

Chemical Engineering Science and Design

ECH	3023	Mass and Energy Balances (4)
ECH	3101	Chemical Engineering Thermodynamics (3)
ECH	3266	Introductory Transport Phenomena (3)
ECH	3274L	Transport Phenomena I Laboratory (3)
ECH	3418	Separations Processes (3)

ECH	3854	Chemical Engineering Computations (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) [3 for Biomedical 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 four 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 science specifically approved by the Chair of the Department of Chemical Engineering.

CHM	2211L	Organic Chemistry II Laboratory (3)
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or

CHM	3120C	Introduction to Analytical Chemistry (4)
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or

CHM	4135C	Instrumental Analysis (3)
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or

BCH	4053	General Biochemistry I (3)
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Chemical Engineering Electives. The two chemical engineering electives (three [3] semester hours each) are to be selected from the 4000 level elective courses offered in the Department of Chemical Engineering.

Major in Chemical Engineering—Environmental

Advanced Chemistry Elective

CHM	3120C	Introduction to Analytical Chemistry (4)
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or

CHM	4135C	Instrumental Analysis (3)
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Chemical Engineering Electives

ECH	4781	Chemical Engineering Environmental (3)
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and

BSC	2010	Biological Science I (3)
BSC	2010L	Biological Science I Laboratory (1)

or

GLY	2010C	Physical Geology (4)
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Major in Chemical Engineering—Bioengineering

Advanced Chemistry Elective

BCH	4053	General Biochemistry I (3)
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Chemical Engineering Electives

ECH	4743	Chemical Engineering Bioengineering (3)
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and

BSC	2010	Biological Science I (3)
BSC	2010L	Biological Science I Laboratory (1)

or

MCB	2013	Microbiology (3)
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Major in Chemical Engineering—Materials

Advanced Chemistry Elective

CHM	3120C	Introduction to Analytical Chemistry (4)
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or

CHM	4135C	Instrumental Analysis (3)
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Chemical Engineering Electives

One of

ECH	4823	Introduction to Polymer Science and Engineering (3)
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or

ECH	4824	Chemical Engineering Materials (3)
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or

ECH	4937	Special Topics in Chemical Engineering [Molecular Engineering] (3)
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or

ECH	4937	Special Topics in Chemical Engineering [Polymers] (3)
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and one of

EML	3234	Materials Science and Engineering (3)
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or

PHY	3101	Modern Intermediate Physics (3)
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or

PHY	3221	Intermediate Mechanics (3)
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or

a second course from the choices above [ECH 4823, 4824, or 4937] (3).

Major in Biomedical Engineering

Biological Science Prerequisite

BSC	2010	Biological Science (3)
BSC	2010L	Biological Science I Laboratory (1)

Psychology Liberal Studies Course

PSY	2012	General Psychology (3)
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Advanced Chemistry Elective

BCH 4053 General Biochemistry I (3) (CHM 4411, Physical Chemistry II is not required for the biomedical major)

Chemical and Biomedical Engineering Science and Design

ECH 4937 Special Topics in Chemical Engineering [Quantitative Anatomy and Systems Physiology for Biomedical Engineers I and II - two course sequence] (3,3)

Biomedical Engineering Elective (take one)

ECH 4741 Biomedical Engineering (3)
 ECH 4743 Chemical Engineering/Bioengineering (3)
 ECH 4904 Undergraduate Research Project (1–3) [for a total of 9 credits]
 ECH 4906 Honors Work in Chemical Engineering (1–3) [for a total of 6 credits]

Pre-Med Electives (recommended)

BCH 4054 General Biochemistry II (3)
 BSC 2011, Biological Science II w/ Lab 2011L (3,2)
 CHM 2211L Organic Chemistry II Lab (3)
 PCB 3063 General Genetics (3)
 PCB 3743 Vertebrate Physiology (3)

Undergraduate Research Program (URP)

The Department of Chemical 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 Engineering) program. For requirements and other information, contact the department, and see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefix

BME — Biomedical Engineering
 ECH — Chemical Engineering
 EGN — General Engineering

Undergraduate Courses

BME 4082. Biomedical Engineering Ethics (3). Prerequisite: Senior or graduate standing in Biomedical Engineering. This course is an introduction to the key theories, concepts, principles, and methodology relevant to the development of biomedical professional ethics. The student is facilitated in his/her development of a code of professional ethics through written work, class discussion and case analysis.

ECH 2050. Chemical Engineering Communications (2). Techniques for effective oral communication in settings most frequently encountered by the practicing engineer. Speaking skills will be applied in informal presentations, formal presentations, and interviews.

ECH 3023. Mass and Energy Balances (4). Prerequisites: CHM 1046; MAC 2312; Corequisites: CHM 2210; CGS 3408 or 3460; MAC 2313; PHY 2048C. This course examines material and energy balances on chemical process systems and process measurements and development of problem solving methodologies in mass and energy balances.

ECH 3101. Chemical Engineering Thermodynamics (3). Prerequisites: ECH 3023 and 3264 with grades of "C–" or better; MAP 3305; PHY 2049C; Corequisites: CHM 4410; ECH 3265. Energy balances and entropy analysis for systems of chemical engineering interest. Computer calculations involving real fluids, mixtures, phase equilibrium, and chemical equilibrium.

ECH 3264. Transport Phenomena I (3). Prerequisites: MAC 2313; CHM 1046; and either CGS 3408 or 3460; Corequisites: ECH 3023; MAP 3305; PHY 2049C. Theory and applications of momentum transfer analysis. Basic theology, velocity profile calculations, and design of fluid flow equipment.

ECH 3265. Transport Phenomena II (3). Prerequisites: MAP 3305; PHY 2049C; ECH 3264 with a grade of "C–" or better. Corequisites: CHM 4410; ECH 3101; EEL 3003, 3003L. Theory and applications of heat transfer analysis. Temperature profile calculations and design of heat transfer equipment.

ECH 3266. Introductory Transport Phenomena (3). Prerequisites: CHM 2210; ECH 3023 and 3101, both with a "C–" or better; EGM 3512; MAP 3305. Corequisite: 3418. This course examines integral balance equations for conservation of momentum, energy and mass. Topics include the following: application to chemical processes involving fluid flow and heat and mass transfer; estimation of friction factors, and heat and mass transfer coefficients; pump selection and sizing and piping network analysis; and design of heat exchangers.

ECH 3274L. Measurements and Transport Phenomena Laboratory (3). Prerequisites: CHM 4410; ECH 2050, 3265; Corequisite: ECH 4403. Course reinforces principles of physical property measurement and transport phenomena through a series of laboratory experiments. The main emphasis of the course is placed on the written and oral communication of the lab results. There will be lecture material pertaining to the analysis of data, numerical and error analysis, and design of experiments.

ECH 3301. Introduction to Process Analysis and Design for Chemical Engineers (3). Prerequisite: MAC 2313. This course will examine the development of process models for equilibrium and dynamic systems, including stagewise processes, that arise in chemical engineering applications, and their analysis using exact and appropriate techniques.

ECH 3418. Separations Processes (3). Prerequisites: CHM 2210; ECH 3023 and 3101, both with a "C–" or better; EGM 3512; MAP 3305. Corequisite: ECH 3266. 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 3821. Computer Applications in Chemical Engineering (3). Prerequisite: MAC 2311. This course is an introduction to computational tools available for the solution of chemical engineering problems. The primary focus will be on the use of spreadsheets, high-level programming languages such as MATLAB, and computer algebra systems such as Maple in chemical engineering applications. This course also will provide an introduction to the use of chemical process simulators.

ECH 3854. Chemical Engineering Computations (3). Prerequisites: ECH 3264; either CGS 3408 or CGS 3460; MAP 3305. Introduction to the central concepts of practical numerical techniques using computers for solving chemical engineering problems. Includes solution of equations in one variable, interpolation and polynomial approximation, numerical differentiation and integration, initial value problems for ordinary differential equations, direct methods for solving linear systems, iterating techniques in matrix algebra, and numerical solution of nonlinear systems of equations.

ECH 3949r. Cooperative Work Experience (0). (S/U grade only.)

ECH 4267. Advanced Transport Phenomena (3). Prerequisites: ECH 3266, 3418. Corequisite: ECH 3274L. This course examines the following topics: molecular mechanisms for momentum, heat, and mass transport; differential balance equations for conservation of momentum, energy and mass; application of steady and unsteady-state chemical processes

involving diffusive and convective mass transfer in solids, liquids and gases; interphase transfer mechanisms; and boundary layer theory and turbulent transport.

ECH 4323. Process Control (3). Prerequisites: ECH 4504, 4604. A systematic introduction to dynamic behavior and automatic control of industrial processes. Synthesis of feedback control loops for linear systems and synthesis of control structures.

ECH 4323L. Process Control Laboratory (1). Corequisite: ECH 4323. Experiments designed to illustrate and apply control theory, measurement techniques, calibration, tuning of controls, characterization of sensors, and control circuits.

ECH 4403. Transport Phenomena III (3). Prerequisites: ECH 3101, 3265; CHM 4410; Corequisites: ECH 3264L; EGM 3512; CHM 4411. Principles of mass transfer theory, and the practical applications and design of mass transfer operations.

ECH 4404L. Unit Operations Laboratory (3). Prerequisites: ECH 3264L, 4403. Familiarizes students with the principles taught in ECH 4403. Preparing experimental plans and doing the required experimental work with unit operations equipment to meet specific objectives. Emphasis is on computer data analysis and on oral/written communication skills.

ECH 4504. Kinetics and Reactor Design (3). Prerequisites: ECH 3101, 3265; CHM 4410; Corequisites: ECH 3264L; EGM 3512; CHM 4411. Principles of mass transfer theory, and the practical applications and design of mass transfer operations.

ECH 4604. Chemical Engineering Process Design I (4). Prerequisites: ECH 3264L, 4403; ECO 2023; Corequisite: ECH 4504. Engineering economics review and cost-estimation techniques. Design of chemical process equipment. Computer-aided design calculations.

ECH 4615. Chemical Engineering Process Design II (3). Prerequisites: ECH 4504, 4604. Design of chemical process facilities and computer-aided design. An individual design project is completed by each student.

ECH 4702. Semiconductor Processing Operations (3). Prerequisite: Senior standing in chemical engineering. An introduction to semiconductor properties and processing operations. Emphasis is placed on engineering analysis of crystal growth and processing operations involved in the fabrication of integrated circuits.

ECH 4741. Biomedical Engineering (3). Prerequisite: Senior standing in chemical engineering. An introduction to the field of biomedical engineering with particular emphasis on the general engineering role. Emphasis is placed on hemodynamics, human physiology, pharmacodynamics, artificial organs, biomaterials, biomechanics, and clinical engineering.

ECH 4743. Chemical Engineering/Bioengineering (3). Prerequisite: Senior standing in chemical engineering; Corequisite: ECH 4504. Introduction to the major principles of the life sciences (microbiology, biochemistry, biophysics, genetics) that are important for biotechnological applications. Extension of the chemical engineering principles of kinetics, reactor design, heat and mass transport, thermodynamics, process control, and separation processes to important problems in bioengineering.

ECH 4781. Chemical Engineering/Environmental (3). Prerequisite: ECH 4403; Corequisite: ECH 4504. Introduction to applications of environmental engineering from a chemical engineering perspective. Thermodynamics, stoichiometry, chemical kinetics, transport phenomena, and physical chemistry are utilized in addressing pollution control and prevention processes. Analysis of particle phenomena, including aerosols and colloids. Applications of fundamentals to analyze gas and liquid waste treatment processes.

ECH 4823. Introduction to Polymer Science and Engineering (3). Prerequisite: Senior standing in chemical engineering. Introduction to the physical chemistry, reaction kinetics, reaction engineering, and processing of polymeric systems.

ECH 4824. Chemical Engineering Materials (3). Prerequisite: Senior standing in chemical engineering. Introduction to materials science and engineering from a chemical engineering perspective. Fundamentals of engineering materials, including polymers, metals, and ceramics are studied. Emphasis is placed on the strong interrelationship between materials structure and composition, synthesis and processing, and properties and performance.

ECH 4904r. Undergraduate Research Project (1–3). Prerequisites: ECH 3101, 3265. Corequisite: ECH 4403. This course consists of independent research on a topic relevant to chemical engineering. May be repeated to a maximum of nine (9) semester hours.

ECH 4905r. Directed Individual Study (1–3). Prerequisite: Senior standing in chemical engineering. May be repeated to a maximum of twelve (12) semester hours.

ECH 4906r. Honors Work in Chemical Engineering (1–6). Prerequisite: Acceptance in honors program. May be repeated to a maximum of nine (9) semester hours.

ECH 4937r. Special Topics in Chemical Engineering (1–3). Prerequisite: Senior standing in chemical engineering. Topics in chemical engineering with emphasis on recent developments. May be repeated to a maximum of twelve (12) semester hours.

EGN 3032. Engineering Ethics (3). Prerequisite: junior standing in engineering. This course introduces the key theories, concepts, principles, and methodology relevant to the development of professional engineering ethics. The student will be guided in his/her development of a code of professional ethics through written work, class discussion and case analysis.

Graduate Courses

BME 5005.	Engineering and Applied Science Aspects of Biology and Medicine (3).
BME 5020.	Biophysical Chemistry and Biothermodynamics (3).
BME 5030.	Biochemical Transport Phenomena (3).
BME 5086.	Biomedical Engineering Ethics (3).
BME 5105.	Biomaterials (3).
BME 5385.	Animal Surgical Techniques (3).
BME 5500.	Biomedical Instrumentation (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.	Thesis (1–9). (S/U grade only.)
BME 6210.	Biomechanics of Human Structure and Motion (3).
BME 6330.	Tissue Engineering (3).
BME 6530.	NMR and MRI Methods in Biology and Medicine (3).
BME 6550.	Computer Aided Design and Control in Medicine and Surgery (3).
BME 6720.	Biostatistical Mechanics (3).
BME 6938r.	Special Topics in Biomedical Engineering (3).
BME 6980r.	Dissertation (1–9).
BME 8965r.	Doctoral Qualifying Exam (0).
BME 8976.	Thesis Defense (0). (S/U grade only.)
BME 8985.	Dissertation Defense (0). (S/U grade only.)
ECH 5052.	Research Methods in Chemical Engineering (3).
ECH 5126.	Advanced Chemical Engineering Thermodynamics I (3).
ECH 5128.	Advanced Chemical Engineering Thermodynamics II (3).
ECH 5261.	Advanced Transport Phenomena I (3).
ECH 5262.	Advanced Transport Phenomena II (3).
ECH 5263r.	Special Topics in Transport Phenomena (3).
ECH 5325.	Advanced Process Control (3).
ECH 5526.	Advanced Reactor Design (3).
ECH 5626.	Chemical Process Optimization (3).
ECH 5740.	Fundamentals of Biomolecular Engineering (3).
ECH 5784.	Chemical Engineering Environmental (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.	Thesis (1–12). (S/U grade only.)
ECH 6127.	Phase Equilibria (3).
ECH 6272.	Molecular Transport Phenomena (3).
ECH 6283.	Microrheology (3).
ECH 6506.	Chemical Engineering Kinetics (3).
ECH 6536.	Surface Science and Catalysis (3).
ECH 6848.	Operator-Theoretic Methods in Engineering Sciences (3).
ECH 6980r.	Dissertation (1–24). (S/U grade only.)
ECH 8965r.	Doctoral Preliminary Exam (0). (S/U grade only.)
ECH 8976.	Thesis Defense (0). (S/U grade only.)
ECH 8985.	Dissertation Defense (0). (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*

Department of CHEMISTRY AND BIOCHEMISTRY

COLLEGE OF ARTS AND SCIENCES

Chair: Naresh Dalal; *Professors:* Allen, Cioslowski, Clark, Cross, Dalal, Dorsey, Dougherty, Fulton, Gilmer, Holton, Krafft, Light, Marshall, Safron, Saltiel, Schlenoff, Schwartz, Vickers; *Associate Professors:* Blaber, Chapman, Cooper, Goldsby, Hilinski, Logan, Stiegman; *Assistant Professors:* Alabugin, Dudley, Greenbaum, Li, Sang, Steinbock, Weston; *University Professor:* Kasha; *Coordinator of General Chemistry Laboratories:* Pulliam; *Coordinator of Upper Division Chemistry Laboratories:* Ward; *Professors Emeriti:* Choppin, DeTar, Herz, Johnsen, Leffler, Linder, Mandelkern, Mellon, Rhodes, Sheline; *Professor Emerita:* 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.

A degree in chemistry or biochemistry is suitable preparation for a variety of career choices, including immediate employment in the chemical, biochemical, environmental, and related industries, or graduate study in chemistry, biochemistry, chemical physics, biophysics, or medicine. Students in this category 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,

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 chemistry degrees 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 anthropology, medical technology, oceanography, the earth sciences, food sciences, or criminology, or for students planning a career in business, public policy or law with an emphasis in technology. Compared to the other degree programs in chemistry, this program has a smaller core of required courses to which students are expected to add elective work in other areas after consultation with

their advisor. **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.**

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 Program and Honor Societies" chapter of this *General Bulletin* and the Chemistry Undergraduate Information Packet available from the Student Affairs Office, 208 Hoffman Teaching Laboratory, or the departmental web page.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for these University degree programs. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Chemistry

1. CHM 1045/1045L or CHM 1040 and CHM 1041 or CHM 1045C or CHM 1045E;
2. CHM 1046/1046L or CHM 1046C or CHM 1046E;
3. MAC 2311 or MAC 2281;
4. MAC 2312 or MAC 2282;
5. Choose one of the following sequences:
 - a) CHM 2210/2210L and CHM 2211/2211L or CHM 2210C and CHM 2211C;
 - or
 - b) PHY 2048/2048L and PHY 2049/2049L or PHY 2048C and PHY 2049C or PHY 2053C or PHY 2053/2053L and PHY 2054C or PHY 2054/2054L.

Biochemistry

1. BSC 1010/1010L and BSC 1011L or PCB X010 or PCB X011 or PCB X021 or PCB X131 or BSC X040 or BSC 2012 or ZOO 2010 or BOT 1010 or BSC X041 or BOT 2013;
2. CHM 1045/1045L;
3. CHM 1046/1046L;
4. CHM 2210/2210L*;
5. CHM 2211/2211L*;
6. MAC X312*.

Chemical Sciences

1. CHM 1045/1045L or CHM 1040 and CHM 1041 or CHM 1045C or CHM 1045E;
2. CHM 1046/1046L or CHM 1046C or CHM 1046E;
3. MAC 2311;
4. Choose **one** of the following sequences:
 - a) CHM 2210/2210L* and CHM 2211/2211L;
 - or
 - b) PHY 2053C and PHY 2054C.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

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*.

Note: the University requires that students demonstrate certain computer competencies. Chemistry students are encouraged to complete this competencies requirement during their freshman year.

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*.

Students who expect to transfer to The Florida State University should note that all chemistry courses at the 4000 level applied toward any of the department's majors must be taken at The Florida State University unless specifically exempted by the chair by written request.

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 calculus and calculus-based physics courses required for the environmental chemistry major constitute an interdepartmental minor approved by the Department of Chemistry and Biochemistry. The biology courses required for the baccalaureate degree in biochemistry constitute a minor in biological sciences. The baccalaureate degree in chemical science must include a minor of twelve (12) semester hours in an approved minor field or fifteen (15) semester hours in an interdepartmental minor approved by the Department of Chemistry and Biochemistry. 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. Graduating students must schedule an exit interview with the Chair of the Undergraduate Curriculum and Advising Committee. The purpose of the interview is to ensure that the final degree requirements are met that term and to discuss the information requested in the exit survey. The department will not approve graduation without an exit interview.

Academic Performance

No required course in which a student has earned a grade below "C-" may be applied toward any of the degrees in chemistry. Students must also make a "C-" or better in the first semester of a year sequence course (or obtain the instructor's permission) to continue the sequence. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in courses required for a major offered by the Department of Chemistry and Biochemistry (chemistry, mathematics, physics, biological science, or approved outside elective) at The Florida State University or elsewhere, whether or not repeated, 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 1045C, 1046C, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); physical chemistry (CHM 4410, 4410L, 4411, 4411L); analytical chemistry (CHM 3120C, 4130C); 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.

Major in Environmental Chemistry

Complete the two-semester sequences in general chemistry (CHM 1045C, 1046C, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); physical chemistry (CHM 4410, 4410L, 4411, 4411L); analytical chemistry (CHM 3120C, 4130C or 4135C); and two semesters of advanced work in chemistry of the environment, including some aspects of aquatic, atmospheric and geological chemistry. Field work and modeling in environmental systems are encouraged as a part of this advanced work. A list of appropriate courses that satisfy the advanced chemistry of the environment requirement may be obtained from the environmental chemistry advisor or the departmental web page. Also required are mathematics through calculus II, two semesters of calculus-based physics, two semesters of either biology or geology (at least one of these courses must include a lab), and one semester of computer programming, numerical modeling, advanced statistics, or calculus III. Calculus III is strongly recommended as preparation for physical chemistry. The physics and math requirements should be met before taking physical chemistry.

American Chemical Society Certification

Students obtaining baccalaureate degrees in chemistry may obtain certification from the American Chemical Society (ACS). Certification requires completion of the core chemistry curriculum listed above, plus two additional upper-level chemistry courses. Independent research taken as CHM 4905r, Directed Individual Study, or 4906r, Honors Work, may be counted as upper-level chemistry courses, provided that a final report is written by the student. 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 1045C, 1046C, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); physical chemistry (CHM 4410, 4411); analytical chemistry (CHM 3120C, 4130C or 4135C); 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 strongly recommended as preparation for physical chemistry. Further, a minimum of thirteen (13) semester hours of biology is required, including general biology (BSC 2010, 2010L, 2011, 2011L), genetics (PCB 3063), and a biology elective from a list obtained from the biochemistry advisor or the departmental web page.

Baccalaureate Degree in Chemical Science

Complete the two-semester sequences in general chemistry (CHM 1045C, 1046C, or CHM 1050, 1050L, 1051, 1051L); organic chemistry (CHM 2210, 2211, 2211L); analytical chemistry (CHM 3120C, 4130C or 4135C); 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.**

Suggested Specialized Electives for Chemical Science

Premedicine

Students intending to study medicine are advised to satisfy the minimum requirements with BSC 2010, 2010L, 2011, 2011L; CHM 2210, 2211, 2211L; and PCB 3063. These students should prepare programs of study in consultation with pre-medical advisors in the Department of Chemistry and Biochemistry and with the College of Medicine.

Oceanography

Students intending to specialize in oceanography are advised to substitute CHM 4130C for 4135C and to include OCE 4011 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 the undergraduate 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 1045C, 1046C or CHM 1050/1050L, 1051/1051L, and at least one of the following courses or course sequences: CHM 2210–2211, CHM 3120C, CHM 3400, CHM 4410–4411. A minimum of thirteen (13) semester hours is required, at least four (4) semester hours of which must be taken at The Florida State University. 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 (4) semester hours of credit in CHM 1020/1020L; an AP score of 4 earns the student credit for CHM 1045C; an AP score of 5 earns the student credit for CHM 1045C and CHM 1046C. Students with an AP score of 3 are eligible to take a departmental placement exam for CHM 1045C.

International Baccalaureate Diploma

International Baccalaureate (IB) diploma holders with a score of 4 will receive four (4) semester hours of credit in CHM 1020/1020L. Those with a score of 5 or higher will earn credit for CHM 1020/CHM 1020L and CHM 1045C.

Policy on Reduced Credit

Students should register for reduced credit if CHM 1030 is taken after passing CHM 1020, if CHM 1045C is taken after passing CHM 1020, or if CHM 1045C is taken after passing CHM 1030, as indicated in the following table:

Sequence of Lecture Courses Taken:	Semester Hours Awarded for Each Course:		
	CHM 1020	CHM 1030	CHM 1045
CHM 1020 only	3	—	—
CHM 1030 only	—	3	—
CHM 1045C only	—	—	4
CHM 1020, then 1030	3	2	—
CHM 1020, then 1045C	3	—	3
CHM 1020, then 1030, then 1045C	3	2	2
CHM 1030, then 1045C	—	3	3

Note: CHM 1020 and 1030 are not preparatory courses for CHM 1045C and should not normally be taken prior to beginning the general chemistry sequence.

Definition of Prefixes

BCH	—	Biochemistry
CHM	—	Chemistry
CHS	—	Chemistry—Specialized
ISC	—	Interdisciplinary Natural Science
PSC	—	Physical Science
SCE	—	Science Education

Undergraduate Courses

General Chemistry

CHM 1020. Chemistry for Liberal Studies (3). Intended to provide the non-science major with an introductory study of chemistry principles without an extensive use of mathematics. This course is designed for students who wish to fulfill the liberal studies science requirement with chemistry and will take no further chemistry courses. This course is not designed as a preparatory course for CHM 1045C. Major topics include elementary atomic theory, gas laws, states of matter. Credit not allowed for CHM 1020 after taking CHM 1030, 1045C, or equivalent.

CHM 1020L. Chemistry for Liberal Studies Laboratory (1). Prerequisite or Corequisite: CHM 1020. Laboratory, two (2) hours. No credit allowed after taking CHM 1045C. Laboratory emphasizing major topics from CHM 1020: quantitative observations, properties of matter, separation of mixtures.

CHM 1030. Survey of General Chemistry (3). Lecture. Prerequisite: MAC 1105. The first course in general chemistry for students in nursing, nutrition and fitness, and other areas requiring a short course leading to CHM 2200C. Students taking CHM 1030 after taking CHM 1020 should contact a chemistry advisor to register for reduced credit. Credit not allowed for CHM 1030 after taking CHM 1045C or equivalent.

CHM 1045. General Chemistry I (3). Lecture, three (3) hours per week, and recitation, one (1) hour. Prerequisite: MAC 1105 with a grade of "C-" or higher or placement beyond MAC 1105 on the University's math department exam. Corequisite: CHM 1045L. Chemical symbols, formulas, equations; the states of matter; electronic structure and bonding. Students taking CHM 1045 after taking CHM 1020 and/or CHM 1030 should contact a chemistry advisor to register for reduced credit.

CHM 1045C. General Chemistry I (4). Prerequisite: MAC 1105 ("C-" or better). Topics in this course include chemical symbols, formulas and equations; the states of matter; electronic structure and bonding; and introduction to chemical laboratory practice. Course consists of lectures, recitations, and laboratory (must sign up for CHM 1045L to select meeting time.)

CHM 1045L. General Chemistry I Laboratory (0). Laboratory, three (3) hours per week. Corequisite: CHM 1045C. Safety goggles and a scientific calculator are required for every class.

CHM 1046. General Chemistry II (3). Lecture. Prerequisites: CHM 1045 and 1045L, or CHM 1050 and 1050L, with a grade of "C-" or higher. Corequisite: CHM 1046L. Elementary thermodynamics; acids and bases; equilibrium; rates and mechanisms of chemical reactions.

CHM 1046C. General Chemistry II (5). Prerequisites: CHM 1045C or 1050 and 1050L (All "C-" or better.) Topics include elementary thermodynamics; acids and bases; equilibrium; rates and mechanisms of chemical reactions; introduction to quantitative laboratory techniques; and semi-micro qualitative analysis of common cations. Course consists of lectures, recitations, and laboratory (must sign up for CHM 1046L to select meeting time.)

CHM 1046L. General Chemistry II Laboratory (0). Laboratory three (3) hours per week. Corequisite: CHM 1046C. Safety goggles and scientific calculator are required for every class.

CHM 1050. Honors General Chemistry I (3). Lecture. Prerequisites: MAC 1105 and high school chemistry. Corequisite: CHM 1050L. A first general chemistry course intended for honors students or students with equivalent qualifications and an interest in majoring in science. 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). Laboratory, three (3) hours. Corequisite: CHM 1050. Introduction to quantitative techniques. Introduction to chemical laboratory. Topics include stoichiometry, atomic spectra, gases, and acids and bases. Safety goggles and scientific calculator are required for every laboratory.

CHM 1051. Honors General Chemistry II (3). Lecture. Prerequisites: CHM 1050 and 1050L, or CHM 1045C; either sequence with a grade of "C" or higher and with consent of instructor. Corequisite: CHM 1051L. Intended for honors students and students with equivalent qualifications. Covers the topics of CHM 1046C in greater depth. Solution equilibria, oxidation reduction and galvanic cells, chemical analysis, hydrides and oxides of the elements, kinetics, advanced bonding and structure.

CHM 1051L. Honors General Chemistry II Laboratory (2). Laboratory conference, one (1) hour; laboratory, five (5) hours. Corequisite: CHM 1051. Opportunity for research-based special projects. Safety goggles and scientific calculator are required for every laboratory.

CHM 3930r. Special Topics in Chemistry (1-3). (S/U grade only.) May be repeated to a maximum of three (3) semester hours.

CHM 4090L. Science Glassblowing (1). Laboratory, one (1) hour. Restricted to advanced science majors. 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: Upperclass standing, "B" average in chemistry courses.

CHM 4906r. Honors Work (1-6). For honors in the major work only. May be repeated to a maximum of nine (9) hours.

ISC 3076. Science, Technology, and Society (3). The role played by science and technology in American society is considered by examining: the organization of the scientific enterprise, the realities of scientific life versus portrayals of scientists in the media, how science is funded, its economic and its intellectual significance, dilemmas posed by progress in science and technology, and societal conditions under which science flourishes. This course cannot be used as credit toward a major or a minor in a science department. At least junior standing or permission of instructor is required.

PSC 2801C. Physical Science for EC/EE Teachers (4). This course is designed for prospective elementary and early childhood education majors. The course integrates physics and chemistry. The course includes laboratory exercises. Students will 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). See interdisciplinary science courses in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Analytical Chemistry

CHM 3120C. Introduction to Analytical Chemistry (4). Lecture, two (2) hours; laboratory, six (6) hours. Prerequisites: CHM 1046C with a grade of "C-" or higher. Fundamentals of analytical chemistry. Topics include acid-base equilibria, redox potentials, compleximetric titrimetry, separations, electrochemistry, and absorption spectroscopy. Satisfaction of the University's requirement for computer skills is recommended before attempting this course.

CHM 4080. Environmental Chemistry I (3). Prerequisites: CHM 1045C, 1046C. 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). Prerequisites: CHM 2210, 2211. Organic geochemistry of natural waters and sediments. 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 will also be devoted to anthropogenic (xenobiotic) organic molecules. Discussion of how analytical techniques such as ^{13}C NMR, mass spectroscopy and capillary electrophoresis provide useful organic biogeochemical information.

CHM 4130. Advanced Analytical Chemistry (3). Lecture, three (3) hours. Prerequisites: CHM 3120C with a grade of "C-" or higher; PHY 2048C or 2053C. Corequisite: Physical chemistry or consent of instructor. This course is the lecture portion of CHM 4130C. Not available to undergraduate chemistry majors. Normally reserved for graduate students who need a course in chemical instrumentation but who do not need the laboratory experience. Satisfaction of the University's requirement for computer skills is recommended before attempting this course.

CHM 4130C. Advanced Analytical Chemistry (4). Lecture, three (3) hours; laboratory, six (6) hours [lab meets for nine (9) weeks only]. Prerequisites: CHM 3120C with a grade of "C-" or higher; PHY 2048C or 2053C. Corequisite: Physical chemistry or consent of instructor. Topics include electronics, optical instrumentation, laboratory computers, instrumental methods of analysis, atomic emission and absorption spectroscopy, nuclear magnetic resonance spectroscopy, mass spectrometry, chromatography. Satisfaction of the University's requirement for computer skills is recommended before attempting this course.

CHM 4135C. Instrumental Analysis (3). Lecture, two (2) hours; laboratory, six (6) hours [lab meets for nine (9) weeks only]. Prerequisite: CHM 3120C with a grade of "C-" or higher. A course in instrumental analysis. An alternative (not sequel) to CHM 4130C intended for the chemical science and biochemistry majors. Topics include atomic spectroscopy, molecular absorption and fluorescence, IR and Raman spectroscopy, mass spectrometry, chromatography. Satisfaction of the University's requirement for computer skills is recommended before attempting this course.

Biochemistry

BCH 3023C. Introduction to Biochemistry (3). Lecture, two (2) hours; laboratory, three (3) hours, alternating with one (1) hour recitation. Prerequisite: CHM 2200C. A survey of modern biochemistry with special emphasis on those concepts which might be of use to nutrition and food scientists.

BCH 4053. General Biochemistry I (3). Lecture, three (3) hours. Prerequisite: CHM 2210. Corequisites: CHM 2211, 2211L. The first biochemistry course recommended for chemistry and biology majors and for students who intend to study medicine. Structure and function of proteins, membranes, and cellular constituents. Enzyme catalysis bioenergetics. Carbohydrate metabolism.

BCH 4053L. General Biochemistry I Laboratory (3). Prerequisite: CHM 3120C. Corequisite: BCH 4053. Laboratory conference, one (1) hour; laboratory, six (6) hours. Laboratory methods in biochemistry including electrophoresis, chromatography, cell fractionation, and enzyme assays, ligand interactions, and recombinant DNA technology.

BCH 4054. General Biochemistry II (3). Lecture, three (3) hours. Prerequisite: BCH 4053. Intermediary metabolism. Structure and expression of genetic information.

BCH 4605. Mammalian Biochemistry and Genetics (3). Lecture, three (3) hours. Prerequisites: BCH 4054; PCB 3063. Biochemistry and molecular biology with the emphasis on mammalian systems. Biochemical basis of metabolic diseases.

Inorganic Chemistry

CHM 4610. Inorganic Chemistry (3). Lecture, three (3) hours. Prerequisites: CHM 2211, 2211L, 3120C; Corequisite: CHM 4410 or consent of instructor. Physical principles, systematics in the chemistry of periodic groups, descriptive chemistry of the inorganic elements. Topics such as atomic structure and the periodic classification of the elements, chemical bonding, chemical reaction, acid-base chemistry, chemistry of main group elements, and coordination chemistry of the transitional elements will be included.

CHM 4610L. Inorganic Chemistry Laboratory (1). Laboratory conference, one (1) hour; laboratory three (3) hours. Prerequisite: CHM 4610. Synthesis and characterization of inorganic compounds.

CHS 4100C. Techniques of Radiochemistry (3). Lecture, two (2) hours; laboratory, six (6) hours. Prerequisite: Physical chemistry or consent of instructor. Principles of nuclear and radiochemistry. Techniques and applications of radiotracers are studied. The course is designed to prepare students in the theory and practice of nuclear science in chemistry and related science.

Organic Chemistry

CHM 2200C. Survey of Organic Chemistry (4). Lecture, three (3) hours; laboratory, four (4) hours. Prerequisite: CHM 1030. Intended for students in nutrition and fitness (fitness option).

CHM 2210. Organic Chemistry I (3). Lecture, three (3) hours; recitation one (1) hour. Prerequisites: CHM 1046, 1046L with a grade of "C-" or higher. Fundamentals of structure and chemical behavior of organic molecules. The first course in a sequence for chemistry majors, premedicine students, biologists, and others requiring good background in organic chemistry.

CHM 2211. Organic Chemistry II (3). Lecture, three (3) hours; recitation one (1) hour. Prerequisite: CHM 2210 with a grade of "C-" or higher or permission of the instructor.

CHM 2211L. Organic Chemistry II Laboratory (3). Laboratory conference, one (1) hour; laboratory, seven (7) hours. Prerequisite: CHM 2210 with a grade of "C-" or higher. Corequisite: CHM 2211.

Physical Chemistry

CHM 3400. General Physical Chemistry (4). Lecture, three (3) hours; recitation, one (1) hour. Prerequisites: CHM 1046C and calculus I. 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, 4411. Physical Chemistry I, II (3, 3). Lecture, three (3) hours. Prerequisites: CHM 1045C or consent of instructor; MAC 2312 (MAC 2313 recommended). Corequisite: PHY 2049C. Thermodynamics, kinetic theory of gases, reaction kinetics, introduction to quantum mechanics, introduction to statistical mechanics.

CHM 4410L. Physicochemical Measurements and Techniques I (1). Laboratory, three (3) hours. Corequisite: CHM 4410. Satisfaction of the University's requirement for computer skills is recommended before attempting this course.

CHM 4411L. Physicochemical Measurements and Techniques II (2). Laboratory, six (6) hours. Prerequisite: CHM 4410L. Corequisite: CHM 4411. Satisfaction of the University's requirement for computer skills is recommended before attempting this course.

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 5141. Introduction to Chemometrics (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).
- CHM 5506, 5507. Biophysical Chemistry and Macromolecules I, II (3,3).
- BCH 5745. Chemical and Physical Characterization of Biopolymers (3).
- BCH 5886r, 5887r. Special Topics in Biochemistry and Cell Biology [one to three (1–3) hours each].
- BCH 6896r. Biochemistry Seminar (1).
- BCH 6897r. Biochemistry Seminar (1). (S/U grade only.)

Inorganic Chemistry

- CHS 5455C. Intermediate Inorganic Chemistry for Secondary Science Teachers (3).
- CHM 5620. Principles of Inorganic Chemistry (3).
- CHM 5640. Current Problems in Inorganic Chemistry (2).
- CHM 5680r, 5681r. Current Topics in Inorganic Chemistry [one to three (1–3) hours each].
- CHM 6690r. Inorganic Chemistry Seminar (1).
- CHM 6691r. Inorganic Chemistry Seminar (1). (S/U grade only.)

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 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, 5507. Biophysical Chemistry and Macromolecules I, II (3, 3).
- CHM 5530. Survey of Physical Chemistry (3).
- CHM 5580r, 5581r. Special Topics in Physical Chemistry [one to three (1–3) hours each].
- CHM 5585. Experimental Methods in Physical Chemistry (3).
- CHM 6590r. Physical Chemistry Seminar (1).

Multiple Area Courses

- CHM 5823r. Supervised Research (1–5). (S/U grade only.)
- CHM 5830r–5833r. Directed Individual Study [one to six (1–6) hours each]. (S/U grade only.)
- CHM 5910–5913. Chemical Research [three (3) hours each].
- 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.)
- CHM 6850r–6851r. Techniques in Research [three (3) hours each]. (S/U grade only.)

For listings relating to graduate course work for thesis, dissertation, and masters and doctoral examinations and defense, consult the *Graduate Bulletin*.

**CHILD DEVELOPMENT:
see Family and Child Sciences**

**CHILDHOOD EDUCATION:
see Elementary and Early
Childhood Education**

**CHINESE:
see Asian Studies;
Modern Languages
and Linguistics**

Department of CIVIL AND ENVIRONMENTAL ENGINEERING

FAMU—FSU COLLEGE OF ENGINEERING

Chair: J. W. Wekezer; *Professors:* Dzurik, Hall, Nnaji, Ping, Tawfiq, Yazdani; *Associate Professors:* Leszczynska, Mtenga, Sobanjo, Spainhour; *Assistant Professors:* Abdel Razig, Abdullah, Abichou, Chan Hilton, Huang, Mussa

The Department of Civil and Environmental Engineering has the mission of teaching 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 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 others interested individuals. The department has a special mission to provide an opportunity for a civil engineering education for minorities and women.

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 sciences, 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 stabilization 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, triaxial, CBR, and shear testing equipment and seismographs for in situ and laboratory measurements of engineering properties of soils and rocks; 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 department houses the Institute for Transportation Technologies (ITT), which is a well equipped state-of-the-art, high-performance computing environment for the pursuit of transportation related research. The equipment includes a Silicon Graphics Origin 2000 technical server with sixteen parallel processors, and a cluster of workstations for fast visualization, and pre- and post-processing. This advanced computing environment is available primarily to graduate students working as research assistants with departmental faculty. 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. Desktop computers are supported by a cluster of Sun, DEC, and SGI servers. Other nearby resources include the School of Computational Science and Information Technology (CSIT). Additional information about the department can be obtained from the college home page: <http://www.eng.fsu.edu>.

Programs Offered

The department offers a program of study for the bachelor of science (BS) degree in civil engineering. The civil engineering major is broad-based emphasizing all aspects of civil engineering practice including structural analysis and design, geotechnical, construction/transportation, hydraulics and 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 the management of all types of wastewater systems. Regardless of focus, all students are taught to apply state-of-the-art technologies to the solutions of problems in these areas.

The department offers graduate programs leading to the master of science (MS) and doctoral (PhD) degrees in civil engineering. These programs provide areas of concentration in structural, geotechnical, environmental/water resources, and construction/transportation engineering. The department also offers a certificate in water and environmental resources engineering in partnership with the Center for Professional Development. Students may enroll as special students if they intend to use the certificate credits later. Students

who do not wish to receive academic credit may sign up for continuing education units (CEU's). Twelve (12) semester hours are required to complete the program. Information and registration may be found at <http://www.eng.fsu.edu/certificateprogram/>. In order to be admitted to the MS program, a student must have a bachelors degree in civil engineering, a 3.0 grade point average (GPA) in the last two years of undergraduate school, and a Graduate Record Examination (GRE) score of at least 1000. Exceptions may be granted where other evidence indicates an ability to perform satisfactory graduate work. A student without a bachelor's degree in civil engineering may be required to complete undergraduate engineering articulation courses prior to attempting more advanced work. Admission to the doctoral program requires possession of a masters degree in civil or environmental engineering or a closely allied academic discipline from an accredited college or university, good standing in the academic institution last attended, evidence of a 3.0 GPA on a 4.0 scale as an upper level undergraduate or graduate student, and a minimum score of 1100 on the GRE. Exceptional applicants with a BS degree may be admitted to the PhD program, provided they complete an MS degree in the department before obtaining the PhD degree. For more details, refer to the *Graduate Bulletin*.

Department Education Objectives

The Department of Civil and Environmental Engineering has identified the following four department education objectives:

1. To provide civil and environmental engineering graduates from a civil engineering program with required engineering proficiencies to enter professional practice or to continue their studies at the graduate level;
2. To provide graduates, especially women, African Americans, and other minorities, with sufficient management, communication, and leadership skills for successful civil and environmental engineering careers;
3. To provide civil and environmental engineering graduates with a solid background in mathematics and science, technology, and analytical and design procedures; and,
4. To provide graduates with an understanding of the rapid pace of change in civil and environmental engineering and its importance to society.

Student Outcomes

These objectives are further expanded and detailed through twelve student outcomes. From several interchangeable, existing terms such as student outcomes, program outcomes, graduate outcomes and graduate attributes the department elected to use the term "student outcomes." The student outcomes are intellectual abilities that each student must gain from the program before he/she graduates. The following student outcomes below are closely linked to departmental objectives:

- a. An ability to apply knowledge of the following: mathematics, through differential equations and probability and statistics; science, including calculus-based physics and general chemistry; and engineering, to subsequent problems;

- b. An ability to design and conduct field and laboratory experiments, as well as to critically analyze and interpret data in more than one of the recognized civil engineering areas;
- c. An ability to design systems, components, or processes gained through design experiences integrated throughout the curriculum;
- d. An ability to function on interdisciplinary and multidisciplinary teams;
- e. An ability to identify, formulate, and solve civil and environmental engineering problems;
- f. An understanding of ethical and professional practice issues, including project design, execution, and delivery; and the importance of professional licensure and continuing education;
- g. An ability to communicate effectively;
- h. The broad education necessary to understand the impact of engineering solutions in a global/societal context;
- i. A recognition of the need for and an ability to engage in lifelong learning;
- j. Knowledge of contemporary civil and/or environmental issues;
- k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice; and,
- l. Proficiency in a minimum of four recognized areas within the civil engineering program.

Engineering Design

Following engineering design criteria established by the Accreditation Board for Engineering and Technology (ABET), the civil engineering curricula provides excellent design experiences for students. Faculty of the Department of Civil and Environmental Engineering have 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 course work 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.

Beginning with an introductory course EGN 1004L, First Year Engineering Laboratory in the freshman year, design components are integrated in the curriculum with a focus on professional practice. A majority of the design experiences are integrated into junior and senior level courses. For example, design experience is expanded in the civil engineering curriculum when students have completed EGN 3311, Civil Engineering Mechanics, and progress to EGN 3331, Strength of Materials, then to CES 3100, Structural Analysis I. Students are exposed to extensive design experiences in CES 4702, Concrete Design and CES 4605, Steel Design courses.

A major in environmental engineering includes ENV 4001, Environmental Engineering, which builds on material covered in CWR 3201, Hy-

draulics, and is followed by CWR 4202, Hydraulic Engineering I and CWR 4101, Engineering Hydrology. CGN 4800, Pre-Senior Design and Professional Issues, and CGN 4802, Senior Design Project, provide significant, culminating design experiences that are applied to one or two actual engineering situations for students, who are working in multidisciplinary teams and majoring in either civil or environmental engineering.

Additional information about design credits may be obtained by contacting faculty advisors at the Department of Civil and Environmental Engineering and from department brochures.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. ENC 1101;
2. ENC 1102;
3. MAC 2311*;
4. MAC 2312*;
5. MAC 2313*;
6. MAP 2302;
7. CHM 1045/1045L*;
8. PHY 2048/2048L;
9. PHY 2049/2049L;
10. Six (6) semester hours in humanities;
11. Six (6) semester hours in social science;
12. Three (3) additional semester hours in humanities **or** social science.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

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

CCE	3101	Construction Materials (3)
CCE	3101L	Construction Materials Lab (1)
CEG	2202C	Site Investigation (3)
EEL	3003	Introduction to Electrical Engineering (3)
EGN	1004L	First Year Engineering Lab (1)*
EGN	2123	Computer Graphics for Engineers (2)
EGN	2212	Engineering Statistics and Computation (3)
EGN	3311	Civil Engineering Mechanics (4)
EGN	3331	Strength of Materials (3)
EGN	3331L	Strength of Materials Lab (1)
EGN	3613	Principles of Engineering Economy (2)
EML	3100	Thermodynamics (2)

Civil Engineering Science and Design Core Courses (Breadth)

CEG	3011	Soil Mechanics (3)
CES	3100	Structural Analysis (3)
CWR	3201	Hydraulics (3)
CWR	3201L	Hydraulics Lab (1)
EES	3040	Introduction to Environmental Engineering Science (3)
EES	3040L	Introduction to Environmental Engineering Science Lab (1)
TTE	3004	Transportation Engineering (3)

Civil Engineering Science and Design Proficiency Courses (Depth)

Each area consists of a two-course sequence. Students must take the **first three areas** and may choose **area 4 or 5** for a total of 4 out of 5 proficiency areas (or 24 out of 30 possible credits). Students may choose from the following: 1. Structures; 2. Geotechnical; 3. Transportation; 4. Environmental; or 5. Water Resources.

1. Structures

CES	4605	Steel Design or CES 4702 Concrete Design (3)
CES	XXXX	Structures elective (3) (may be either CES 4605, CES 4702, or another CES course.)

*: Please consult the Department of Civil and Environmental Engineering for details.

2. Geotechnical

- CEG 4801 Geotechnical Design (3)
 CEG XXXX Geotechnical elective (3)

3. Construction and Transportation

- CCE XXXX Construction elective (3)
 TTE XXXX Transportation elective (3)

4. Environmental

- ENV 4001 Environmental Engineering (3)
 ENV XXXX Environmental elective (3)

5. Water Resources

- CWR 4202 Hydraulic Engineering I (3)
 CWR XXXX Water Resources, Hydraulics or Hydrology elective (3)

Major Design Experience

- CGN 4800 Pre-senior Design and Professional Issues (1)
 CGN 4802 Senior Design Project (3)

Civil Engineering Electives

To meet the proficiency requirement, students will select courses to supplement the required civil engineering proficiency courses and to specialize their degree program to suit their individual objectives. Each student majoring in civil engineering is required to complete a total of four or five courses or twelve to fifteen (12–15) semester hours of electives. Please check with the department for a list of elective courses.

Requirements for the Bachelor of Science in Civil Engineering: Environmental Engineering Major

In addition to college requirements, a candidate for the 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 2202C Site Investigation (3)
 EEL 3003 Introduction to Electrical Engineering (3)
 EES 2205C Environmental Engineering Chemistry (4)
 EES 3040 Introduction to Environmental Engineering Science (3)
 EES 3040L Introduction to Environmental Engineering Science Lab (1)
 EGN 1004L First Year Engineering Lab (1)*
 EGN 2123 Computer Graphics for Engineers (2)
 EGN 2212 Engineering Statistics and Computation (3)
 EGN 3311 Civil Engineering Mechanics (4)
 EGN 3331 Strength of Materials (3)

*: Please consult the Department of Civil and Environmental Engineering for details.

- EGN 3613 Principles of Engineering Economy (2)
 EML 3100 Thermodynamics (2)

Environmental Engineering Science and Design Core Courses (Breadth)

- CEG 3011 Soil Mechanics (3)
 CWR 3201 Hydraulics (3)
 ENV 4001 Environmental Engineering (3)
 ENV 4611 Environmental Impact Analysis (3) or approved substitution
 TTE 3004 Transportation Engineering (3)

Environmental Engineering Science and Design Proficiency Courses (Depth)

Students are required to take all four proficiency areas for a total of twenty-four (24) semester hours: 1. Environmental; 2. Water Resources; 3. Geotechnical; 4. Construction and Transportation

1. Environmental

- ENV 4561 Design of Water Quality Management Facilities (3)
 ENV XXXX Environmental Engineering elective (3)

2. Water Resources

- CWR 4101 Engineering Hydrology (3)
 CWR XXXX Water Resources, Hydraulics or Hydrology elective (3)

3. Geotechnical

- CEG 4801 Geotechnical Design (3)
 ENV 4341 Solid and Hazardous Waste Management (3)

4. Construction and Transportation

- CCE 3101 Construction Materials (optional lab) (3)
 TTE XXXX Transportation elective (3)

or

- CCE XXXX Construction elective (3)

Major Design Experience

- CGN 4800 Pre-senior Design and Professional Issues (1)
 CGN 4802 Senior Design Project (3)

Environmental Engineering Electives

As indicated above, students will select courses to meet the required environmental engineering proficiency courses and to specialize their degree program to suit their individual objectives. Each student majoring in environmental engineering is required to complete a total of three courses or nine (9) semester hours of electives. Please check with the department for a list of elective courses.

Department Requirements

Transfer students and students within the program in civil engineering must achieve a GPA of 2.5 or higher in Calculus I (MAC 2311 [4]), Calculus II (MAC 2312 [4]), Physics I (PHY 2048C [5]) and

Chemistry I (CHM 1045 [4], CHM 1045L [1]) prior to enrolling in any upper-level civil and environmental engineering classes. Students who do not meet this requirement may be directed to take additional academic work. A maximum of one repeat of each course is allowed in meeting this requirement. Students also must adhere to the policies set by the College of Engineering. 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 without any waiver as a graduation requirement. These courses cover the areas of mathematics and basic design, basic engineering science and design, civil engineering science and design, environmental engineering science and design, proficiency and core courses, and electives.

All undergraduate students must take the Fundamentals of Engineering (FE) exam as a degree requirement and are encouraged to take the civil discipline exam during their senior year.

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
 EGN — General Engineering
 ENV — Environmental Engineering
 TTE — Transportation and Traffic Engineering

Undergraduate Courses

CCE 3101. Construction Materials (3). Prerequisite: EGN 3331. Properties and characteristics of construction materials for civil and highway engineering; metals, aggregates, cements, timber, concrete, and asphalt. Lab and field testing techniques are included.

CCE 3101L. Construction Materials Laboratory (1). Prerequisite or Corequisite: CCE 3101. Prepare concrete and asphalt specimens; test construction materials under compression, tension, torsion loading. Write formal laboratory reports.

CCE 4004. Construction Engineering (3). Prerequisites: CCE 3101; EGN 3613. Theories, principles, and applications of engineering professionalism and ethics. Emphasis on pre-design, planning, scheduling, contracts and specification, construction methods, and equipment and safety.

CCE 4014. Construction Cost Estimating (3). Prerequisites: CCE 3101; EGN 3613. Corequisite: CCE 4004. 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). Prerequisites: CCE 4004. 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 2202C. Site Investigation (3). Prerequisite: MAC 1114. Methods and procedures of surface mapping and subsurface sectioning including distance measurements, traverse computations and topographic mapping, photogrammetry, data collection, landform and terrain analysis, field instrumentation, and characterization of geologic materials. Use of field equipment and procedures to measure angles and distance, photo interpretation, and geological materials characterization.

CEG 3011. Soil Mechanics (3). Prerequisites: CEG 2202C; EGN 3331. Study of physical properties of soils and their behavior under stress and strain with idealized conditions. Use of laboratory methods to determine soil properties. Written formal reports are required.

CEG 4111. Foundation Engineering (3). Prerequisite: CEG 4801. Design of spread footings, pile and caisson foundations, retaining structures, and waterfront structures. Investigation of slope stability. Choice between alternative designs.

CEG 4701. Environmental Geotechnics (3). Prerequisite: CEG 3011. The geotechnical aspects of waste containment and storage. Aspects of design, construction, and performance of earthen structures for storing or disposing waste or remediating contaminated sites.

CEG 4801. Geotechnical Design (3). Prerequisites: CEG 2202C, 3011; CES 3100. Design different geotechnical structures including shallow foundations, slopes and embankments, and earthwork with geosynthetics. Determine soil properties in the laboratory and write formal reports.

CES 3100. Structural Analysis I (3). Prerequisites: EGN 2212, 3111. Pre- or corequisite: EGN 3331. Loads on structures. Reactions, shear, and bending moment. Trusses. Influence lines. Deflection of determinate structures; introduction to indeterminate structures.

CES 4101. Advanced Structural Analysis (3). Prerequisites: CES 3100; EGN 3331. Review of matrix algebra. Direct stiffness method for truss analysis. Computer applications. Statically indeterminate structures. Slope-deflection and moment distribution methods. Computer modeling of structures.

CES 4330. Optimal Structural Engineering (3). Prerequisites: CES 4605, 4702; EGN 2212; MAP 3305. Course covers standard theories of structural design plus classical optimization and latest structural optimization methods.

CES 4605. Steel Design (3). Prerequisites: CES 3100; EGN 3331. Design of tension, compression, and flexural steel member according to AISC specifications. Bolted and welded connections for steel members. Choice between design alternatives, introduction of plastic design methods.

CES 4702. Concrete Design (3). Prerequisite: CES 3100; EGN 3331. Design of reinforced concrete beams, columns, one-way slabs, etc., for bending, shear, deflection, cracking and bond. As part of this class, students will learn computer and oral communication skills relevant to concrete design.

CES 4704. Advanced Concrete Design (3). Prerequisites: CES 3100, 4702; EGN 3331. Advanced topics pertaining to complex reinforced concrete elements and structures. The analysis and design for torsion, slender columns, two-way slabs, shear walls, deep beams, and the truss analogy.

CES 4711. Prestressed Concrete (3). Prerequisite: CES 4702. Theoretical background of prestressed concrete. Losses in prestressing. Design of prestressed concrete beams and slabs. Serviceability of prestressed concrete members. Precast members.

CES 4800. Timber Design (3). Prerequisite: CES 3100. Design of basic timber structures such as beams, columns, walls and diaphragms. SBC and the NDS code applications are used.

CES 4830. Masonry Design (3). Prerequisite: CES 3100. Design of basic reinforced masonry structures such as walls, columns, and foundations. SBC and code applications used.

CGN 3949r. Cooperative Work Experience (0). (S/U grade only). Field work in an approved civil engineering agency program for integration of theory and professional practice.

CGN 4800. Pre-senior Design and Professional Issues (1). Prerequisite: senior standing. Topics in this course include engineering and professional ethics; professional practice issues; and design under engineering and societal constraints. Preparation of proposals for multidisciplinary design projects are completed the following semester in CGN 4802, Senior Design Project.

CGN 4802. Senior Design Project (3). Prerequisites: student must have senior standing; completed all basic, core, and proficiency courses; and have approval of their advisor as well as permission of the instructor. A capstone senior-level design course integrating the knowledge gained in undergraduate studies. Completion of a team-based design project covering several sub-disciplines in civil or environmental engineering. Industry and professional participation.

CGN 4930r. Special Topics (1-3). 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 (12) semester hours.

CWR 3201. Hydraulics (3). Prerequisites: EGN 2212, 3311; MAP 3305. Fundamental concepts of fluid properties, hydrostatics, kinematics, ideal flow viscous effects, transport phenomena; drag, laminar, and turbulent flow in pipes and channels; dimensional analysis, network design.

CWR 3201L. Hydraulics Laboratory (1). Prerequisites: EGN 2212, 3311; MAP 3305. Corequisite: CWR 3201. Participation in hydraulics experiments and demonstrations and reporting experimental results in formal technical reports.

CWR 4101. Engineering Hydrology (3). Prerequisites: CWR 3201, 3201L; EGN 2212; or their equivalents. Study of the processes of the hydrologic cycle, hydrologic analyses for the planning and design of water management systems, use of application program packages.

CWR 4103. Water Resources Engineering (3). Prerequisites: CWR 4202; EGN 2212, 3613. Systems approach to complex water resources problems; application of systems analysis of water resources operations, design, and planning.

CWR 4120. Groundwater Hydrology (3). Prerequisites: CWR 3201; 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, 3201L; EGN 2212; or their equivalents. Review principles of hydrology and hydraulics. Apply principles to design of water supply, urban drainage, flood control, and hydraulic energy conversion systems. Computer-aided design of hydraulics systems.

CWR 4203. Hydraulic Engineering II (3). Prerequisite: CWR 4202. Course covers methods for analyzing a broad range of unsteady flow conditions and for the design of facilities to cope with problems that may result. Students learn to apply computer programs, based on these methods, to practical water distribution and open channel systems.

CWR 4306. Urban Stormwater Runoff (3). Prerequisites: CWR 3201, 4101 or consent of instructor. The course is intended to provide an understanding of (1) storm events, stormwater runoff, and effects of urbanization on stormwater quantity and quality; (2) methods of analysis; and (3) planning and design procedures for stormwater facilities.

CWR 4822. Coastal and Estuarine Hydraulics (3). Prerequisites: CWR 3201; MAC 2313. This course examines numerous topics including 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 2205C. Environmental Engineering Chemistry (4). Prerequisites: CHM 1045, 1045L. Application of fundamental chemistry principles to major environmental processes and problems. Emphasis is on the chemistry of treatment processes for air, upon water and soil pollutants; hazardous waste identification and treatments; toxicology chemistry.

EES 3040. Introduction to Environmental Engineering Science (3). Prerequisite: CHM 1045, 1045L. Application of environmental sciences to fundamentals of environmental engineering. Emphasis is on water and air pollution, their sources and treatment; solid and hazardous waste management.

EES 3040L. Introduction to Environmental Engineering Science Laboratory (1). Prerequisite: CHM 1045, 1045L. Corequisite: EES 3040. Course covers use of field and laboratory instruments for measuring air and water quality indicators. Includes site visits.

EGN 2210. Introductory Engineering Numerical Modeling (3). Prerequisites: EGN 1004L; MAC 2311. Recognize problems for which computer solutions are appropriate; formulate mathematical models of the problems; develop solution algorithms, obtain numerical; solution of problems by hand calculation and by use of modern engineering problem solving tools such as MATHCAD.

EGN 2212. Engineering Statistics & Computation (3). Prerequisites: use of www and Internet resources; EGN 1004L; MAC 2311. Course covers problem formulation; algorithm development and programming; measurement and computational

error assessment; application of statistical and numerical modeling tools for data analysis; and use of Mathcad software package.

EGN 3311. Civil Engineering Mechanics (4). Prerequisites: MAC 2312; PHY 2048C. Concept of force and moment. Two and three-dimensional equilibrium of points, frames, and machines using vector algebra. Principles of friction, centroids, centers of gravity, and area moments of inertia, virtual work, motion and kinematics, force and acceleration.

EGN 3331. Strength of Materials (3). Prerequisite: EGN 3311. Axial, torsional, and flexural stresses and strains; normal stress, shear stress; Mohr's circle; torsion bending, stress, transformation of stress; safety factors; engineering applications.

EGN 3331L. Strength of Materials Laboratory (1). Prerequisite: EGN 3311. Corequisite: EGN 3331. Main topics to be covered include: stress-strain relationship, tensile members, members under the torsion, flexural behavior, thin walled vessels and column buckling. (Lab not required for environmental majors)

EGN 4906r. Directed Individual Study (1-3). Directed special project/research in an area of civil engineering science or design not covered in the curriculum. This course may be repeated.

ENV 4001. Environmental Engineering (3). Prerequisites: CHM 1045; CWR 3201; EES 2205C, 3040, 3040L. Corequisite: CWR 4202. Design of water and wastewater treatment plants; wastewater collection systems; air and water pollution control; solid waste management; contemporary environmental issues.

ENV 4022. Remediation Engineering (3). Prerequisite: ENV 4001 or equivalent. Corequisite: CWR 4202 or equivalent. 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, hydraulic and pneumatic fracturing pump-and-treat systems.

ENV 4041. Environmental Systems Analysis (3). Prerequisites: EES 3040, 3040L; ENV 4001; MAC 2311. 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 or equivalent; EES 3040. Study of the processes of pollutant chemicals transformation in and transport between air, water and soil or sediments. Use and development of predictive mathematical models for the remediation of existing contaminated sites or prevention of future contamination from new sources.

ENV 4341. Solid and Hazardous Waste Engineering (3). Prerequisite: EES 3040, 3040L; ENV 4001. Course covers definitions and characteristics of solid and hazardous wastes. 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. Case studies of waste management.

ENV 4405. Water Reuse Engineering (3). Prerequisites: CHM 1045, 1045L; EES 3040. Corequisite: EES 2205C. Sources of water for reuse, treatment processes and systems, monitoring and control instrumentation, health and social aspects, design of facilities/systems.

ENV 4500. Environmental Unit Processes and Operations (3). Prerequisite: CWR 3201; ENV 4001. Corequisite: CWR 4202. 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). Prerequisites: CWR 3201; EES 3040, 3040L; EGN 2212. 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 wastewater treatment plants and systems for disposal of residuals from such facilities.

ENV 4611. Environmental Impact Analysis (3). Prerequisites: EES 3040, 3040L. Analysis of various measures of environmental quality. Impact of human activity on water, land, and air resources. Benefit-cost analysis in environmental impact assessment.

TTE 3004. Transportation Engineering (3). Prerequisites: CEG 2202C; EGN 2212; junior standing. An introductory study of all modes of transportation in the United States with special emphasis on highway planning and design, construction, operation, management, and safety.

TTE 4201. Traffic Engineering (3). Prerequisite: TTE 3004. Nature, characteristics, and theories of traffic problems. Traffic survey procedures, origin-destination studies. Introduction to theory and design of automatic control of traffic systems.

TTE 4250. Traffic Operations (3). Prerequisites: EGN 2212; TTE 3004. Operation of transportation systems, monitoring, regulation, and control traffic.

TTE 4271. Intelligent Transportation Systems (3). Prerequisites: EGN 3443; TTE 3004. Course covers advanced traffic management systems (ATMS), advanced traveler information systems (ATIS), advanced vehicle control systems, commercial vehicle operations, rural ITS, human factors, institutional issues, architecture and standards, simulation and modeling.

TTE 4804. Highway Geometric Design (3). Prerequisites: CEG 2202C; TTE 3004. Principles and procedures for the geometric design of highways and streets: consideration of traffic, land use, and aesthetic factors.

Graduate Courses

CCE	5035.	Construction Planning and Scheduling (3).
CCE	5036.	Project Controls in Construction (3).
CEG	5015.	Advanced Soil Mechanics (3).
CEG	5065.	Soil Dynamics (3).
CEG	5115.	Foundation Engineering (3).
CEG	5127.	Highway and Airport Pavement Design (3).
CEG	5415.	Groundwater, Seepage, and Drainage (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.	Earthquake/Wind Engineering (3).
CES	5606.	Advanced Steel Design (3).
CES	5706.	Advanced Reinforced Concrete Design (3).
CES	5715.	Prestressed Concrete (3).
CES	5845.	Composites in Civil Engineering (3).
CES	6116.	Finite Elements in Structure (3).
CGN	5315.	Probabilistic Design in Civil Engineering (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 in Civil Engineering (1–6).
CGN	5935r.	Civil Engineering Seminar (0). (S/U grade only.)
CGN	5971r.	Masters Thesis (1–6). (S/U grade only.)
CGN	5974.	Masters Project (3). (S/U grade only.)
CGN	6942.	Supervised Teaching (3). (S/U grade only.)
CGN	6972.	Masters Thesis Defense (0). (S/U grade only.)
CGN	6980r.	Dissertation (1–24). (S/U grade only.)
CGN	8985r.	Dissertation Defense (0). (S/U grade only.)

CGN	8988r.	Doctoral Preliminary Exam (0). (S/U grade only.)
CWR	5125.	Groundwater Hydrology (3).
CWR	5205.	Hydraulic Engineering II (3).
CWR	5305.	Urban Stormwater Runoff (3).
CWR	5515.	Physical Models of Hydraulic Systems (3).
CWR	5516.	Numerical Models in Hydraulics (3).
CWR	5635.	Water Resources Planning and Management (3).
CWR	5824.	Coastal and Estuarine Hydraulics (3).
ENV	5028.	Remediation Engineering (3).
ENV	5045.	Environmental Systems Analysis (3).
ENV	5055.	Chemical Fate and Transport in the Environment (3).
ENV	5105.	Air Pollution Control (3).
ENV	5407.	Water Reuse Engineering (3).
ENV	5504.	Environmental Engineering Processes and Operations (3).
ENV	5565.	Design of Water Quality Management Facilities (3).
ENV	5615.	Environmental Impact Analysis (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	5526.	Airport Planning and Design (3).
TTE	5805.	Highway Geometric Design (3).

For listings relating to graduate course work for thesis, dissertation, master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of CLASSICAL LANGUAGES, LITERATURE, AND CIVILIZATION

COLLEGE OF ARTS AND SCIENCES

Chair: W. Jeffrey Tatum; *Professors:* N. de Grummond, W. de Grummond, Glenn, Golden, Tatum; *Associate Professors:* Pfaff, Pullen, Sickinger; *Assistant Professors:* Fulkerson, Slaveva-Griffin, Stoddard; *Emeriti Faculty:* Plescia, Thompson; *Visiting Professor:* Cairns

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 Classical Languages, Literature and Civilization 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 interdisciplinarity of the classics and strives to achieve an integrated understanding of the ancient world that includes a full appreciation of history, literature, and material culture. 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. Some who major in classics will go on to academic careers as philologists or archaeologists. Others will become teachers in the schools or specialists in museum work. But 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.

In addition to offering instruction to majors, the department participates in the University's Liberal Studies Program and offers innovative courses that satisfy the University's multicultural 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, and Roman religion.

Majors and elective students alike will find many intellectual opportunities in the classics department. There is an active chapter of Eta Sigma Phi (the classics honor society) and a vigorous Student Archaeology Club. The department conducts its own archaeological field school in conjunction with its excavation of the Etruscan/Roman site of Cetamura del Chianti in Italy, application to which is open to all students. Each year the department hosts several distinguished guest speakers and a visiting professor of international stature, the Langford Family Eminent Scholar, who teaches a course specifically for undergradu-

ates. Every semester the department hosts a major conference. In the Fall, it is the Langford Latin Seminar; in the Spring, it is the Langford Conference. Recent topics have included the following: Latin elegy; Athenien democracy; Athens in Augustan Greece; and Aristotle and Horace on Why Art Pleases.

Students interested in the classics are encouraged to discuss their future plans with the undergraduate advisor. Most students will find that their needs are best accommodated by the department's very flexible program in classical civilization (see below), but 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.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for these University degree programs. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Classics and Classical Language

1. Six to twelve (6–12) semester hours of coursework in classics or a demonstration of proficiency by testing or completion of intermediate level.

Greek, Classical

1. Six to twelve (6–12) semester hours of coursework in Greek or a demonstration of proficiency by testing or completion of intermediate level.

Latin

1. Six to twelve (6–12) semester hours of coursework in Latin or a demonstration of proficiency by testing or completion of intermediate level.

Requirements for a Major 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 of "C–" or lower may be counted toward satisfaction of major requirements. In addition, courses used to satisfy the college foreign 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.

Latin

Twenty-four (24) semester hours above the 1000 level. Two courses at the 3000 level are required, including LNW 3211, and 4340r, along with six (6) additional semester hours at the 4000 level. LNW 3010r and 3011 are recommended. At the discretion of the adviser, up to four (4) semester hours of Greek or classical civilization may be counted toward this major. Students working toward secondary school certification will have other requirements as well.

Greek

Thirty (30) semester hours chosen in consultation with the departmental adviser. This program will normally include GRE 1120 and 1121.

Classics—Program A (Latin and Greek)

Thirty (30) semester hours in Greek and Latin chosen in consultation with the departmental adviser. At least twelve (12) semester hours are required in each language. The student must take 4000 level courses in at least one of the languages. If secondary school certification is sought in connection with this program, the major must include twenty-four (24) semester hours of Latin.

Classics—Program B (Classical Civilization)

Thirty (30) semester hours chosen in consultation with the departmental adviser. These hours may be selected from any of the courses listed below. No more than twelve (12) semester hours of Latin and Greek may be counted. Either CLA 4935r or an equivalent 4000 level course chosen in consultation with the departmental adviser is required and CLA 2010 is recommended. Students are strongly encouraged to take some courses in the Greek or Latin language. Courses used to satisfy the college foreign language requirement, however, may not be counted toward the major.

Classical Archaeology

Thirty-three (33) semester hours of course work. ARH 3130 and 3150 are required in addition to three of the following advanced archaeology

courses: ARH 4110, 4118, 4120, 4131, 4151, and 4173. Competence in one ancient language at the third-semester level is required; this requirement may be fulfilled by taking the Greek language sequence of GRE 1120, 1121, and 2230, or the Latin language sequence of LAT 1120, 1121, and 2230. In addition to the twelve (12) semester hours of Latin or Greek required for the classical archaeology major, the BA degree requires twelve (12) semester hours of ancient or modern language study (three sequential four [4] semester hour courses). It is strongly recommended that the student fulfill the requirement through the study of French, German, or Italian. Six (6) semester hours of electives in classics are also required, to be chosen in consultation with the departmental adviser; only three (3) semester hours of those elective courses taken to fulfill the humanities requirements may also be counted towards the requirements of the major. Students are encouraged to participate in the classics department's excavations at Cetamura, Italy, and to study at the University's study center in Florence.

Honors in the Major

The Department of Classical Languages, Literature, and Civilization 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 Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Classics

A minimum of twelve (12) semester hours 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. In Greek or Latin the sequence may begin at the 1000 level (provided this does not duplicate the foreign 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 Literature in Translation
EUH	—	European History
GRE	—	Greek (Language Study)
GRW	—	Greek Literature (Writings)
LAT	—	Latin (Language Study)
LNW	—	Latin Literature (Writings)

Undergraduate Courses

ARH 2090. Great Discoveries in World Archaeology (3). An introduction to the discipline of archaeology and to the work of famous archaeologists through an examination of selected archaeological discoveries in Europe, Africa, Asia and the Americas.

ARH 3130. Survey of Greek Art and Archaeology (3). Survey of Greek art from the Bronze Age to the Hellenistic period and important archaeological discoveries in Greek lands.

ARH 3150. Art and Archaeology of Ancient Italy (3). Survey of art in Italy from the Etruscan and Roman periods and important Etruscan and Roman archaeological sites.

ARH 4110. Art and Archaeology of the Bronze Age in the Aegean (3). Study of the art and culture of prehistoric Crete and Greece and important monuments and archaeological sites.

ARH 4118. Archaeology of Ancient Egypt (3). Survey of the archaeology and art of ancient Egypt, from the Predynastic to the Ptolemaic and Roman periods. An emphasis on the art, architecture, and culture of the Old and New Kingdoms.

ARH 4120. Etruscan Art and Archaeology (3). Study of Etruscan art and culture and important monuments and archaeological sites.

ARH 4131. Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3). Study of classical Greek art and important monuments and archaeological sites.

ARH 4151. Art and Archaeology of the Early Roman Empire (3). Study of Roman art from Augustus through Hadrian and important monuments and archaeological sites.

ARH 4173r. Studies in Classical Archaeology and Art (3-9). Studies in specific aspects of the archaeology and art of Greece and Italy. May be repeated to a maximum of nine (9) semester hours.

ARH 4932r. Tutorial in Classical Archaeology (1-3). Prerequisites: ARH 3130, 3150; instructor consent. Readings and discussions within a small group of advanced undergraduates concerning a specific topic or research problem in classical archaeology. May be repeated to a maximum of six (6) semester hours.

ASH 3200. History of the Ancient Near East (3). Survey of the Near East—Anatolia, Mesopotamia, Egypt, the Holy Land—in the ancient period.

CLA 2010. Introduction to Greek and Roman Civilization (3). Introduction to Greek and Roman civilization: survey of classical literature, art, and philosophy with readings in translation from outstanding Greek and Roman authors.

CLA 2011. Sports in Antiquity (3). Examines the particulars and technicalities of ancient sports and the representations of sports and sporting ideals in art, literature and law. Studies the religious context of ancient sports and the social importance of spectacles.

CLA 2110. The Greek Way: Introduction to Greek Civilization (3). A survey of the daily life and the cultural and political achievements of the ancient Greeks from Homeric times to the period of Alexander the Great.

CLA 2123. The Roman Way: Introduction to Roman Civilization (3). A survey of the daily life and the cultural and political achievements of the Romans from the founding of Rome to the later Roman Empire.

CLA 2500. Ancient Greek Athletics (3). An introduction to the athletics of ancient Greece through an examination of archaeological evidence and literary texts.

CLA 3012. Homosexuality in Antiquity (3). 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 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 4437r. Studies in Greek History (3). Study of specified periods of Greek history, whether Archaic, Classical, or Hellenistic. May be repeated to a maximum of six (6) semester hours.

CLA 4447r. Studies in Roman History (3). Study of specified periods of Roman history in the Republic or Empire. May be repeated to a maximum of six (6) semester hours.

CLA 4780r. Classical Archaeology: Fieldwork (1-6). Excavation experience through The Florida State University Field School at Cetamura, Italy. May be repeated to a maximum of twelve (12) semester hours.

CLA 4880. Roman Law (3). Introduction to Roman civil law. This course provides a general perspective of Roman legal ideas and problems related to family law, property law, law of delicts, and law of procedure.

CLA 4909r. Honors Work (1-6). Up to twelve (12) semester hours may be taken in honors work. May be repeated to a maximum of nine (9) semester hours.

CLA 4935r. Seminar in Classical Civilization (3-6). Prerequisite: Nine (9) semester hours of study in classical civilization or the consent of instructor. Special topics in classical culture presented around a seminar format. May be repeated to a maximum of six (6) semester hours.

CLT 3041. Word Building: Greek and Latin Elements in the English Vocabulary (3). An introduction to Greek and Latin elements in English with special attention to word roots and the development of vocabulary through the application of these roots.

CLT 3370. Classical Mythology (3). 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 will deal in a comparative way with the shared elements and influences found in the mythological traditions of selected cultures (e.g. Sumerian, Egyptian, Mayan).

CLT 3380. Classical Drama and Its Influence (3). A survey of the development of tragedy and comedy in the classical world. The theory of tragedy and comedy will be studied and the influence of classical models on the later history of tragedy and comedy will be traced.

CLT 4291. Greek Tragedy (3). An intensive study of the tragedies of Aeschylus, Sophocles, and Euripides.

CLT 4340. Greek and Roman Epic (3). Study of the principal epics of the classical world in English translation.

CLT 4372r. Studies in Ancient Mythology (3). Specific topics in the study of ancient myth and its interpretation. May be repeated to a maximum of six (6) semester hours.

CLT 4383. Studies in Ancient Comedy and Satire (3). Study of movements in Greek and Roman comedy, Roman satire, and ancient prose fiction through readings of selected works in English translation.

CLT 4905r. Directed Individual Study (1-4). May be repeated to a maximum of nine (9) semester hours.

EUH 3420. Rise and Fall of Classical Civilization (3). A survey of the histories of Greece and Rome and their major accomplishments.

EUH 4401. The Age of Alexander the Great (3). 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 Mummich).

EUH 4402. Classical Athens and Sparta (3). History of Greece from the beginning to Alexander the Great. Emphasis on the social and political structures of Sparta and Athens.

EUH 4412. The Roman Republic (3). 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). 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). Introduction to the basic grammar and syntax of classical Greek. Meets the foreign language requirement for the BA degree. No language laboratory required.

GRE 2230. Introduction to Greek Literature (4). 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). Translation, commentary, and interpretation of selected Greek works. May be repeated to a maximum of six (6) semester hours with change of content.

GRW 4210r. Greek Prose Writers (3). Translation, commentary, and interpretation of readings from Greek prose writers. May be repeated to a maximum of six (6) semester hours.

GRW 4301r. Greek Drama (3). Translation, commentary, and interpretation of selected Greek plays. May be repeated to a maximum of six (6) semester hours.

GRW 4340r. Greek Poetry (3). Translation, commentary, and interpretation of readings from selected Greek poets. May be repeated to a maximum of six (6) semester hours.

GRW 4500r. Greek Philosophical Writings (3). Translation, commentary, and interpretation of readings from the Greek philosophers or religious texts. May be repeated to a maximum of six (6) semester hours.

GRW 4905r. Directed Individual Study (1-4). May be repeated to a maximum of nine (9) semester hours.

GRW 4999r. Tutorial in Greek (1-3). Prerequisites: GRW 3104; instructor consent. Intensive work by a small number of undergraduates on a specific topic or research problem in Greek studies. May be repeated as topics vary to a maximum of six (6) semester hours.

LAT 1120, 1121. Beginning Latin I, II (4, 4). Introduction to the basic grammar and syntax of classical Latin. Meets the foreign language requirement for the BA degree. No language laboratory required.

LAT 2230. Introduction to Latin Literature (4). Translation and commentary on selected Latin readings. Meets the foreign language requirement for the BA degree. No language laboratory required.

LNW 3010r. Literature of the Republic (3). Translation, commentary, and interpretation of selected works by authors before Augustus. May be repeated to a maximum of six (6) semester hours.

LNW 3011. Literature of the Augustan Age (3). Translation, commentary, and interpretation of selected works from authors of the Augustan Age.

LNW 3211. Readings in Selected Latin Prose (3). Translation, commentary, and interpretation of readings taken from the prose authors of all periods of Latin literature.

LNW 4313. Plautus and Terence (3). Translation, commentary, and interpretation of selected plays from Plautus and Terence.

LNW 4320r. Roman Lyric, Elegiac, and Pastoral Poetry (3). 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 (6) semester hours.

LNW 4340r. Roman Epic (3). Translation, commentary, and interpretation of the works of Vergil or the other hexameter poets. May be repeated to a maximum of six (6) semester hours.

LNW 4360r. Roman Satire (3). Translation, commentary, and interpretation of selected readings from Horace and Persius, Juvenal, Martial, Petronius, or Apuleius. May be repeated to a maximum of six (6) semester hours.

LNW 4380r. The Roman Historians and Cicero (3). 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 (6) semester hours.

LNW 4905r. Directed Individual Study (1-4). May be repeated to a maximum of nine (9) semester hours.

LNW 4999r. Tutorial in Latin (1-3). Prerequisites: LNW 3010, 3011, 3215; instructor consent. 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 (6) semester hours.

Graduate Courses

ARH 5111.	Art and Archaeology of the Bronze Age in the Aegean (3).	CLA 5936.	Proseminar in Classical Studies (1). (S/U grade only).	GRW 5345r.	Greek Poetry (3).
ARH 5119.	Archaeology of Ancient Egypt (3).	CLA 5940r.	Supervised Teaching (0–3). (S/U grade only.)	GRW 5505r.	Greek Philosophical Writings (3).
ARH 5125.	Etruscan Art and Archaeology (3).	CLA 5942r.	Internship in Museum Studies (3–6).	GRW 5908r.	Directed Individual Study (1–4). (S/U grade only.)
ARH 5140.	Greek Art and Archaeology of the Fifth and Fourth Centuries B.C. (3).	CLA 6980r.	Dissertation (0). (S/U grade only.)	GRW 5909r.	Tutorial in Greek (1–3).
ARH 5160.	Art and Archaeology of the Early Roman Empire (3).	CLA 8964r.	Preliminary Doctoral Examination (0). (S/U grade only.)	GRW 6930r.	Seminar in Greek (3).
ARH 5174r.	Studies in Classical Art and Archaeology (3).	CLA 8985r.	Dissertation Defense (0). (S/U grade only.)	LAT 5069r.	Graduate Reading Knowledge Examination (0). (S/U grade only.)
ARH 5934r.	Tutorial in Classical Archaeology (1–3).	CLT 5295r.	Studies in Greek Tragedy: Aeschylus, Sophocles, and Euripides (3).	LNW 5316r.	Studies in Roman Drama (3).
ARH 6937r.	Doctoral Seminar in Classical Archaeology (3).	CLT 5345.	Studies in Greek and Roman Epic (3).	LNW 5325r.	Roman Lyric, Elegiac, and Pastoral Poetry (3).
CLA 5438r.	Studies in Greek History (3).	CLT 5379r.	Seminar in Ancient Mythology (3).	LNW 5345r.	Studies in Roman Epic (3).
CLA 5448r.	Studies in Roman History (3).	CLT 5385r.	Studies in Ancient Comedy and Satire (3).	LNW 5365r.	Studies in Roman Satire (3).
CLA 5789r.	Classical Archaeology: Fieldwork (1–6).	EUH 5406.	Hellenic History (3).	LNW 5385r.	The Roman Historians and Cicero (3).
CLA 5799r.	Seminar in Classical Archaeology (3).	EUH 5407.	Hellenistic Greece (3).	LNW 5908r.	Directed Individual Study (1–4). (S/U grade only.)
CLA 5885.	Roman Law (3).	EUH 5417.	The Roman Republic (3).	LNW 5932.	Tutorial in Latin (1–3).
CLA 5905r.	Directed Individual Study (1–4). (S/U grade only.)	EUH 5418.	The Roman Empire (3).	LNW 6930r.	Seminar in Latin (3).
CLA 5910r.	Supervised Research (1–3). (S/U grade only.)	GRE 5069r.	Graduate Reading Knowledge Examination (0). (S/U grade only.)	For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the <i>Graduate Bulletin</i> .	
		GRW 5215r.	Studies in the Greek Prose Writers (3).	COGNITIVE SCIENCE: see <i>Graduate Bulletin</i>	
		GRW 5305r.	Studies in Greek Drama (3).		

Department of COMMUNICATION

COLLEGE OF COMMUNICATION

Chair: Stephen McDowell; *Professors:* Heald, Mayo, Sapolsky, Young; *Associate Professors:* Adams, Jordan, MacNamara, McDowell, Montgomery, Nudd, Payne, Pekurny, Pompper, Rackley, Rayburn, Ungurait; *Assistant Professors:* Houck, McClung, Opel, Pashupati, Raney; *Visiting Assistant Professor:* Arpan; *Associate in Communication:* Solomon; *Assistants in Communication:* Halvorson, Lindsay, Posnansky, Rodin, Zeigler; *Associate Scholar/Scientist:* Grise; *Professors Emeriti:* King, Minnick, Phifer, Wotring

The Department of Communication offers a degree in communication with five programs of study. These programs 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. Accordingly, one can focus on: 1) advertising; 2) public relations; 3) communication studies; 4) mass media studies; and 5) media production.

Each area of study 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 Programs of Study," and on the department website at <http://www.comm.fsu.edu/comm>. While some programs of study are professionally oriented and others stress theory and a liberal arts education, each introduces the student to the broad range of com-

munication theory and practice and provides the student with an understanding of the fundamental human and mediated communication processes.

In terms of both academic criteria and extracurricular accomplishments, the students in the Department of Communication are of the very highest caliber and quality. 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 Forensics 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 and cable-casting activities, including radio station WVFS, a variety of sports-related programs as part of Seminole Productions, and broadcasts on WFSU-TV, The Florida State University's PBS station. Other student activities include the Advertising Club, the student chapter of the Florida Public Relations Association, the student chapter of Women in Communication, and Lambda Pi Eta, the national honor society for undergraduate communication students.

Both in and out of the classroom, the students of the Department 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 Department 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 department website, for information regarding graduate programs.

Note: students not formally admitted to the Department of Communication are prohibited from enrolling in more than eighteen (18) semester hours of coursework in the Department of Communication (SPC 1016 and SPC 2600 do not count toward this eighteen [18] semester hour limit). Courses available to non-majors are in the following section entitled "Requirements for a Minor in Communication."

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that

are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. Eighteen (18) semester hours **outside** the major, in addition to the thirty-six (36) hours of general education requirements.

Requirements

Entry Requirements

Communication is a limited access major. Acceptance into the Department of Communication is competitive and acceptance into some of the various programs of study within the department is highly competitive.

All students must apply separately to the Department of Communication; **admission to the University is not a guarantee of admission into the major.** Students transferring from another institution are strongly encouraged to earn an AA before matriculating at The Florida State University, and should apply for admission to the Department of Communication before transferring to Florida State University.

Application Process

Minimum Requirements for Application:

1. Students applying for admission to public relations, advertising, and media production must have an overall GPA of 3.0 on all college course work accepted by The Florida State University. Students applying for admission to mass media studies and communication studies must have an overall GPA of 2.8 on all college coursework accepted by The Florida State University.

2. Students must have passed or been exempted from the CLAST examination before applying.

3. In addition, students must complete the following requirements by the end of the Spring semester in which they are applying:

- a) Forty-three (43) semester hours of college coursework accepted by The Florida State University;
- b) All Liberal Studies requirements; and,
- c) All Gordon Rule requirements.

The Application

Application information is available from the departmental office, 356 *Diffenbaugh*. An online information form may be completed on the College of Communication website at <http://www.comm.fsu.edu>.

Completed applications must be received by the Department of Communication by the first business days in February at 5:00 PM to be consid-

ered for summer/fall admission. 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

Acceptance by a faculty committee will be based on a review of the application and all supporting documents. There are three major criteria by which all undergraduate applications in the Department 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:

- GPA in all college course work;
- Record of academic success in communication and communication-related courses;
- Previous high school, college or professional experiences related to the chosen field;
- Well-defined goals and expectations related to the chosen field;
- Quality of writing in student's application materials; and,
- Preference for a particular major (i.e. the applicant's prioritized rank ordering of the major).

(See Department of Communication application for additional information regarding the review process.)

Note: applicants are encouraged to enroll in courses in a foreign language, computing, statistics, and writing.

Retention Standards

The Department 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 department or the major. Specifically, majors in the Department of Communication must maintain an overall University average GPA of 2.8 or they may be placed on probation or dropped from the major.

Requirements for a Major in Communication

Note: admission to The Florida State University does not guarantee admission to a major in the Department of Communication. Students applying for admission to a departmental major must also apply to the University through the Office of Admissions. The student must apply for, and be accepted into, one of the department's majors. Acceptance into each program of study is based on student qualifications and is competitive.

Different programs of study specify different graduation requirements which lead to the baccalaureate degree in communication. Descriptions

of each program's required and elective course sequences are available from the Department of Communication.

The Department of Communication has the following requirements for graduation. These requirements are beyond the minimum University requirements and those specified by each major: 1) meet the department's language proficiency requirement; 2) only course work with grades of "C-" or above will count toward a student's degree in communication; 3) completion of a minor in an academic area outside the Department of Communication; and 4) no more than six (6) semester hours of the following course work combined will count toward a communication major—COM 3950r, 4905r, 4910r, and SPC 2594r. The department requires that a student wishing to intern make arrangements with the faculty advisor and submit departmental 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 program in the Department of Communication during or after the 2003 admission cycle must achieve proficiency in one language other than English prior to graduation. As a department, 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 in one of three ways: modern language, business language or computer language proficiency.

Modern Language Proficiency. Students may satisfy the language proficiency requirement by completing course work through the 2000 level (2200 or equivalent course) of a modern language. Students may also satisfy the requirement by completing the following coursework in sign language: SPA 1612C, Beginning American Sign Language, and SPA 2613, Intermediate American Sign Language. A student taking course work to fulfill the department's modern language requirement must earn at least a "C-" in each course. Native speakers of another language and other students who wish to demonstrate proficiency by means other than course work should consult the Department of Modern Languages and Linguistics or, for sign language, the Department of Communication Disorders. Upon graduation, those students who pursue this option through a spoken language (i.e. French, German, Spanish, Latin, etc.) will receive a bachelor of arts (BA) degree. Those students who pursue this option through sign language will receive either a bachelor of science (BS) or a bachelor of arts (BA) degree. **Note:** the department's modern language 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 lan-

language will satisfy the University's admissions requirement, these courses do not satisfy the Department of Communication's modern language graduation requirements. Please consult the "Admissions" chapter of this *General Bulletin* for more information.

Business Language Proficiency. Students may satisfy the business language proficiency requirement by completing the following course work: ECO 2013, Principles of Macroeconomics; ECO2023, Principles of Microeconomics; and STA 2023, Fundamental Business Statistics. A student taking course work to fulfill the department's business language requirement must earn at least a "C-" in each course. Upon graduation, students who pursue the business language proficiency option will receive a bachelor of science (BS) degree. The business option to satisfy the Language Proficiency Requirement is suggested for all students in the advertising and public relations majors because STA 2023 is a prerequisite for COM 3310, a required class in both of these majors.

Computer Language Proficiency. Students may satisfy the language proficiency requirement by completing any three of the following courses: CGS 3408, Introduction to Programming with the C Language; CGS 3460, FORTRAN for Non-Specialists; CIS 3931, Intermediate Topics in Computer Science: Introduction to Java Programming; or CGS 3403, Introduction to COBOL Programming. Students taking CGS 3408 may also complete the computer language requirement by taking the following as their second and third courses: CGS 4406, Object Oriented Programming in C++ or COP 3330, Object Oriented Programming; and CIS 4930r, Special Topics in Computer Science.

A student taking course work to fulfill the department's computer language requirement must earn at least a "C-" in each course. Upon graduation, students who pursue the computer language proficiency option will receive a bachelor of science (BS) degree.

Note: there are math prerequisites for some of these courses. These would be taken in addition to the computer science courses listed above.

Required Minor

A minor of at least twelve (12) semester hours, approved by the student's advisor, 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 Department of Communication. Requirements for the minor are established by the minor department, which can be found under the appropriate entry of this *General Bulletin*. Students should consult their faculty advisors when selecting a minor and are encouraged to complete the minor in an area related to their career goals. See individual descriptions of majors below for suggestions. Communication majors who complete a second major outside of the Department of Communication do not need a minor.

Honors in the Major

The Department 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 Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Communication

The Department of Communication offers a minor in communication on a space available basis only. The minor consists of twelve (12) semester hours in communication selected from the following courses:

ADV 3000	Principles of Advertising (3)
MMC 2000	Introduction to the Mass Media (3)
PUR 3000	Introduction to Public Relations (3)
ADV 3352	Mass Media Law (3)
SPC 2210	Contemporary Human Communication (3)
SPC 3513	Argumentation (3)

Only coursework with a grade of "C-" or above in four of these six courses will count toward the minor. Credit earned in meeting the OCCR (Oral Communication Competency Requirement) may not be used to satisfy the minor. At least six (6) semester hours of the communication minor must be taken in the Florida State University Department of Communication.

In cooperation with the College of Arts and Sciences, the Department of Communication also offers an interdepartmental film studies minor. For additional information on this minor, refer to the "School of Motion Picture, Television, and Recording Arts" chapter of this *General Bulletin*.

Description of Programs of Study

Advertising and Public Relations

Career and Educational Goals. Students in this program 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 (39) semester hours. Students must retake any course with a grade below "C-".

Required Minor. A minor (or second major), approved by your advisor, is required. All minor work must be in a department other than the Department 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, and others, depending upon one's career objectives. A fifteen (15) semester hour interdepartmental minor is also possible, provided that the course work is outside the Department of Communication and is approved in advance by the faculty advisor and the department chair.

Internship. Advertising students are required to enroll in a minimum of six (6) semester hours of internship (COM 4945r). Public relations students are required to enroll in a minimum of six (6) semester hours of PR internship (PUR 4940r). A student may enroll for up to twelve (12) semester hours of internship which will count toward the 120 hours needed for graduation from The Florida State University, but only a maximum of nine (9) semester hours may be credited toward the advertising or public relations programs of study.

Course Requirements for the Advertising and Public Relations Major

- Required Core Courses:** sixteen (16) semester hours;
- Emphasis Area (one of two areas):** thirteen to fifteen (13-15) semester hours;
- Internship:** six to nine (6-9) semester hours;
- Electives:** three to five (3-5) semester hours.

Total: thirty-nine (39) semester hours.

A specific listing of courses is available from the Department of Communication, 356 *Diffenbaugh*.

Communication Studies

Career and Educational Goals. Students graduating in this program should have a solid liberal arts education with an emphasis in speech communication. Degrees in speech communication are applicable to a number of fields including law, ministry, speech writing, management and lobbying.

Major Hours Required. Thirty-nine (39) semester hours. Students must retake any course with a grade below "C-".

Required Minor. A minor (or second major), approved by your faculty advisor, is required. All minor work must be in a department other than the Department 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, theater, journalism (at FAMU), sociology, criminology, social sciences, American studies, womens studies, African American studies, British studies (the Florida State University London Program). A fifteen (15) semester hour inter-

departmental minor is also possible, provided the course work is outside of the Department of Communication and is approved in advance by the faculty advisor and the department chair.

Internship. The student may complete an internship (COM 4945) as an elective. Students may register for a total of twelve (12) semester hours of internship credit, however, a maximum of three (3) semester hours may count toward the communication studies major.

Recommended Extracurricular Activities. Debate, V89, Women in Communication, student government, theatre productions, Seminole Productions, FSU Live.

Course Requirements for the Communication Studies Emphasis

Of the three areas in communication studies (applied communication, rhetorical studies and communication and culture), students select one as a primary area of concentration.

1. **Required Core Courses:** SPC 2600, 3210, 3513; nine (9) semester hours;
2. **Emphasis Area** (at least two of these courses must be at the 4000 level): four (4) three (3) semester hour courses = twelve(12) semester hours;
3. **Secondary Area:** one three (3) semester hour course;
4. **Third Area:** one three (3) semester hour course;
5. **Additional Course:** One three (3) semester hour course;
6. **Approved Electives in Communication Studies:** nine (9) semester hours.

Total: thirty-nine (39) semester hours.

A specific listing of courses is available from the Department of Communication.

Mass Media Studies and Media Production

Career and Educational Goals. Students majoring in mass communication may pursue careers in broadcasting, cable, advertising, video production, arts and entertainment, emerging information technologies and related fields. The degree will also prepare students to pursue graduate study in mass communication.

Areas of Special Knowledge and Skills to be Developed. The mass communication program will expose students to the history, evolution and changing state of mass media. Students will develop an appreciation for the economic underpinning of the media, the social effects of the media, legal and ethical issues affecting the production and dissemination of products and programs, the nature of new communication technologies, and techniques employed in the production of the mass media. The major will impart such skills as writing for the media, audience research, computing, on-camera performance, video production, video editing, and developing media plans.

Focus Areas. The mass communication program consists of two emphasis areas: mass media studies and media production. A student applying to the mass communication program is required to indicate on the application form his/her preferred emphasis area. A limited number of students are accepted annually into the media production emphasis area.

Major Hours Required. Thirty-nine (39) semester hours. Students must retake any course with a grade below "C-".

Required Minor. A minor (or second major), approved by the student's faculty advisor, is required. All work must be in a department other than the Department 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, education, English, political science, psychology, theatre, journalism (at FAMU), sociology, criminology, social sciences, American studies, British studies (the Florida State University London Program). A fifteen (15) semester hour interdepartmental minor is also possible, provided the course work is outside the Department of Communication and is approved in advance by the faculty advisor and department chair.

Internship. An internship (COM 4945r) is recommended. A student may enroll for up to twelve (12) semester hours of internship, but a maximum of nine (9) semester hours may be credited toward the major.

Course Requirements for the Mass Communication Emphasis

I. Focus in Mass Media Studies

- a) **Core Courses:** twelve (12) semester hours;
- b) **Research/Theory Courses:** six (6) semester hours;
- c) **Techniques Courses:** three (3) semester hours;
- d) **Activities Courses:** three (3) semester hours;
- e) **Electives** (includes Internship): fifteen (15) semester hours;

Total: thirty-nine (39) semester hours.

II. Emphasis in Media Production

- a) **Core Courses:** twelve (12) semester hours;
- b) **Research/Theory Courses:** six (6) semester hours;
- c) **Techniques Courses:** three (3) semester hours;
- d) **Activities Courses:** six (6) semester hours;
- e) **Production Courses:** twelve (12) semester hours;

Total: thirty-nine (39) semester hours.

A specific listing of courses is available from the Department of Communication.

Definition of Prefixes

ADV	—	Advertising
COM	—	Communication
FIL	—	Film
MMC	—	Mass Media Communication
ORI	—	Oral Interpretation
PUR	—	Public Relations
RTV	—	Radio-Television
SED	—	Speech Education
SPC	—	Speech Communication

Undergraduate Courses

ADV 3000. Principles of Advertising (3). Advertising and promotion as related to level of economic growth, cultural influences, and sociological environments.

ADV 3001. Creative Strategy I (3). A foundation class in advertising where creativity is explored in a workshop environment.

ADV 3352. Mass Media Law (3). Comprehensive review of laws, rules, and regulations affecting both the advertising and broadcast industries as well as other forms of mass media. Includes review of libel, slander, invasion of privacy, gathering of information, and copyright laws.

ADV 4300. Media Planning (3). Prerequisite: ADV 3000 and COM 3310/3310L. Coordination of advertising and marketing research, planning, creative strategy, and selection of media and production activities leading to the development of advertising campaigns.

ADV 4500. Advertising Research (3). Prerequisite: ADV 3000. Survey, observational, and experimental methods and processes. Research design, planning, questionnaire construction, sampling, validity measurements, field work, tabulations, presentation, and interpretation.

ADV 4800. Creative Strategy II (3). Prerequisite: ADV 3000, 3001; COM 3310, 3310L. Creative and empathetic skills necessary in communicating via print and electronic media; utilizing these skills in creating integrated advertising campaigns.

COM 3120. Communication for Organizing (3). Communication and group problem solving in bureaucracies.

COM 3310. Communication Research Methods (3). Prerequisites: STA 3014, STA 2122 or QMB 3200; Corequisite: COM 3310L Introduction to communication research methods. Examines survey, experimental, observational and content analysis methods. Philosophy of science, research design, measurement, sampling, data collection, analysis, interpretation and reporting.

COM 3310L. Communication Research Methods Laboratory (1). Corequisite: COM 3310. Applications and simulations of communication research methods. Lecture material covering research design, measurement, sampling, data collection, analysis, interpretation and reporting practiced using computer technology.

COM 3332. New Communication Technology and Contemporary Society (3). Relates the design, development, and the use of new communication technologies to social, economic and policy implications. Lecture, labs, and discussion groups.

COM 3510. Political Communication and Campaigning (3). Campaigns, elections, and American politics in a communication framework; planning campaign strategies.

COM 3930r. Special Topics in Communication (3). An analysis of specialized topics of current concern in communication. May be repeated to a maximum of six (6) semester hours; duplicate registration allowed.

COM 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

COM 3950r. Communication Activities (1). (S/U grade only.) May be repeated to a maximum of four (4) semester hours; duplicate registration allowed.

COM 4121. Foundation of Organizational Communication (3). The course explores the use of communication in conjunction with the theory and practice of PM/OBM for increasing productivity and analyzing performance problems.

COM 4123. Introduction to Assessing Organizational Communication (3).

COM 4140. Fundamentals of Communication for Organizational Development (3). Introduces students to the communication issues involved in the theory and practice of organizational development.

COM 4330. Communication and the Internet (3). Develops technical and communication skills in Internet-based communication technologies. Hands-on survey of Internet technologies with focus on communication issues, problems and competencies. Lecture and lab.

COM 4465. Communication and Conflict (3). Introduces students to the theory and practice of conflict resolution with emphasis on the role of communication.

COM 4470. Desktop Multimedia (3). 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). An analysis of how communication affects and is affected by our legal institutions and processes.

COM 4481. Attorney, Client, Pretrial Communication (3). Course introduces students to the core elements of the attorney-client relationship across a variety of contexts and the numerous elements of pretrial communication and preparation.

COM 4482. Courtroom and Jury Persuasion (3). Course introduces students to the nature and implications of effective courtroom persuasion and the process of jury analysis and jury selection.

COM 4905r. Directed Individual Study (1-3). (S/U grade only.) Instructor approval required. May be repeated to a maximum of eight (8) semester hours; duplicate registration allowed.

COM 4909r. Honors Work (1-6). For students in the honors program who are working on an honors thesis. May be repeated to a maximum of nine (9) semester hours; duplicate registration not allowed.

COM 4910r. Application of Research Methods (1-3). (S/U grade only.) Instructor approval required. 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) semester hours; duplicate registration allowed.

COM 4930r. Undergraduate Seminar in Communication (3). Explores advanced communication issues with an emphasis on research. May be repeated to a maximum of six (6) semester hours; duplicate registration allowed.

COM 4935r. Senior Seminar in Communication Studies (3). Prerequisites: COM 4481 or SPC 4680 or 4710. This course is an advanced seminar in communication studies with an emphasis in legal communication studies, communication and culture, or rhetorical studies.

COM 4937. Honors Preparatory Seminar (3). Instructor approval required. Preparatory seminar for undergraduate Honors in the Major thesis. Includes survey of subfields, faculty research, and student research proposals.

COM 4941r. Application of Instructional Methods (1-3). (S/U grade only.) To provide experience in methods and strategies of teaching communication concepts within the University context. Individually designed to accommodate students background and objectives. Instructor approval required. May be repeated to a maximum of three (3) semester hours; duplicate registration not allowed.

COM 4945r. Communication Internship (1-12). (S/U grade only.) Faculty advisor's approval required. Supervised internship. Credit proportional to scope and significance of work. Credit may not be applied to graduate degrees. Individually designed to accommodate students' background and objectives. May be repeated to a maximum of twelve (12) semester hours; duplicate registration not allowed.

FIL 2000. Elements of Film (3). The purpose of this course is to provide the student with an opportunity to study classic examples of superior filmmaking and develop critical skills that will help the individual understand and evaluate film communication, literature, and art.

FIL 3106. Film and Television Writing (3). Process and techniques of film scripting, including documentary, rhetorical, and narrative forms, for the film and television media.

FIL 3503. The Contemporary Cinema: Theory and Practice (3). Review and analysis of post-1950 motion pictures with emphasis on technique and industrial evolutions.

MMC 2000. Introduction to the Mass Media (3). A historical and social overview of the mass media and their relationship to the mass communication process in a modern society.

MMC 4210. Media Legalities (3). Prerequisite: RTV 3003. Review and application of media business practices and legal requirements involved in the conception and production of media content for radio and television.

MMC 4300. Communication and Change: The Diffusion of Innovations (3). An analysis of the process of change in developing countries, particularly from the standpoint of how communication is used in the introduction, spread, and adoption of new ideas.

MMC 4602. Mass Media and Society (3). Prerequisite: MMC 2000 or RTV 3003. 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.

ORI 3004. Performance Studies (3). Students collect, analyze and perform personal narratives and everyday conversations.

ORI 3110. Performance of Contemporary Literature (3). Analysis of and practical experience in the performance of poetry and prose.

PUR 3000. Introduction to Public Relations (3). Designed to introduce the student to the principles and practices of the public relations profession throughout all organizations using public relations.

PUR 3002. Public Relations Techniques (3). Prerequisite: PUR 3000 and PUR 3100. Tools and techniques of public relations. Application of public relations principles.

PUR 3100. Writing for Public Relations (3). Corequisite or prerequisite: PUR 3000. Designed to develop professional-level writing skills for public relations.

PUR 3500. Public Relations Research Methods (3). Introduction to public relations research methods. Primarily examines focus groups, content analysis, and survey methodologies.

PUR 3930. Public Relations Proseminar (1). (S/U grade only.) Corequisite: PUR 3000. 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 4600. Public Relations Management: Cases and Campaign Strategies (3). Prerequisites: PUR 3000, 3002, 3100. Designed to focus on the management function of public relations. Focus on significant cases and campaign strategies.

PUR 4940r. Public Relations Internship (1-12). (S/U grade only.) Prerequisites: PUR 3000, 3002, 3100. Practical application of classroom principles in public relations settings. May be repeated to a maximum of twelve (12) semester hours.

RTV 3001. Media Techniques (3). Introduction to basic principles and terminology associated with photography, filmmaking, television, and radio.

RTV 3003. Elements of Broadcasting (3). Surveys American broadcasting from the standpoint of communicators, organizations, content, and audience with special emphasis on research.

RTV 3101. Writing for the Electronic Media (3). Non-fiction writing for television and radio including public affairs, commercials, and documentaries.

RTV 3104. Narrative Writing for Television and Film (3). Development and writing of fictional scripts for television and film.

RTV 3220. Television Production (3). Fundamentals of studio and field production including camera, audio, lighting and production planning using the crew system.

RTV 3221. Single-Camera Video Production (3). Prerequisite: RTV 3220. Course addresses direction and production of single-camera video projects including camera, audio, lighting and linear editing.

RTV 3225r. Video Workshop (1-3). (S/U grade only.) Prerequisite: Communication major status. A course designed for students to gain experience in the production of television programs and video projects. May be repeated to a maximum of three (3) semester hours. Duplicate registration allowed.

RTV 3227. Multiple Camera Studio Production (3). Prerequisite: RTV 3220. Direction and production of multiple-camera studio video projects including camera, lighting, audio and live-to-tape switching.

RTV 3234. Television Interviewing and Hosting (3). Lecture-laboratory. Course introduces students to on camera interviewing and hosting of news and public affairs programs including research and writing components.

RTV 3236. Directing Performance for the Camera (3). Prerequisite: RTV 3220. Students will direct student actors in a workshop setting. Actors and directors will gain experience with and appreciation for those on the other side of the camera. Lecture-laboratory.

RTV 3263. Video Post Production (3). Prerequisite: RTV 3220. Advanced editing and post production techniques applied to field and studio projects. Emphasis on digital non-linear editing systems.

RTV 3264. Computer Graphics and Animation (3). Prerequisite: RTV 3220. Design and production of computer-generated graphics and animation for video projects.

RTV 3920. Television Workshop for Non-Majors (1-3). (S/U grade only.) May not be applied toward communication major. A course designed for students to gain experience in the production of television programs and video projects. May be repeated twice to a maximum of three (3) semester hours.

RTV 3926r. Radio Workshop (1-3). (S/U grade only.) General staff work in any department of the campus student-run radio station. Designed to afford both entry-level training or advanced application of skills. Students must work three (3) hours per week for one (1) hour of credit. May be repeated to a maximum of three (3) semester hours.

RTV 3941r. Radio Practicum (3-6). Prerequisite: Permission of instructor. Advanced radio work in either of two areas: management or other supervisory roles at the student radio station; or special individual projects in the application, study, or research of audio pertaining to radio broadcasting. May be repeated to a maximum of six (6) semester hours.

RTV 4467r. Television Practicum (3-6). Prerequisites: RTV 3220, 3221. Producing and directing television programs and video projects. May be repeated to a maximum of six (6) semester hours.

RTV 4504. Electronic Media Audience Measurement (3). Prerequisites: ADV 3000; RTV 3003. Course provides an understanding of: past and current methods of measuring radio, TV and cable audiences; terms and formulas used by the ratings services; the local market radio (Arbitron) and TV (Nielsen) reports; how ratings and other audience estimates are utilized in radio/TV/cable programming and sales; the newest developments in audience measurement; customized and qualitative approaches to audience measurement; and computer applications widely used in the broadcasting and advertising industries.

RTV 4802. Radio-Television Station Operation and Programming (3). Prerequisite: MMC 2000 or RTV 3003. Purpose, function, organization, and programming of the radio and television station with an emphasis on research.

RTV 4970. Senior Thesis in Production (3). Prerequisite: Senior level status; twelve (12) semester hours of 3000 level production courses; instructor permission. A culminating course for students in production. Individual students, focusing on areas they have mastered in intermediate courses, will produce senior thesis video projects.

SPC 1016. Fundamentals of Speech (3). Survey and application of communication theory, including interpersonal communication, small group communication, and public speaking.

SPC 2410. Parliamentary Law (3). The principles and rules governing voluntary organizations and deliberative assemblies.

SPC 2600. Public Speaking (3). Principles of and practical experience in public speaking.

SPC 3120. Psychology of Oral Communication (3). A study of basic psychological principles involved in communication behavior with application to individual and group communication situations.

SPC 3190. Applied Voice and Diction (3). This course covers articulation, word choice and pronunciation, and introduces the student to the speech production mechanism and how speech sounds are produced and classified.

SPC 3210. Contemporary Human Communication (3). An introductory course that surveys current scholarship in five areas of communication theory: group, rhetorical, interpersonal, legal, and performance communication.

SPC 3231. Contemporary Rhetorical Theory (3). Prerequisite: SPC 2210. This course examines rhetorical theorists of the 20th century, including Burke, Richards, Foucault, Habermas, Fisher and Weaver.

SPC 3233. Classical Rhetoric (3). Prerequisite: SPC 2210. Students examine the origins of rhetorical theory during the classical period. The course emphasizes ideas on rhetoric of Plato, Aristotle, Cicero, and Quintillion.

SPC 3301. Interpersonal Communication (3). 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). Review of recent literature on nonverbal communication including such topics as kinesics, proxemics, kinesthetic behavior, environment, physical characteristics, and personal appearance.

SPC 3350. Listening (3). This course teaches students to understand the complexity of listening and the nature of listening in the human communication process. In order to help students learn to improve their own listening behavior, this course will stress six skill areas: 1) hearing messages, 2) understanding messages, 3) remembering messages, 4) interpreting messages, 5) evaluating messages, and 6) responding to messages.

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 3593r. Competitive Intercollegiate Forensics (1). Competitive debate and individual events. Experienced students will develop and perfect their speaking skills in a highly competitive, structured format of instruction and competition. May be repeated to a maximum of eight (8) semester hours.

SPC 3644. Rhetoric of Didactic Literature (3). Prerequisite: SPC 2210. An analysis of drama as an instrument for advancing a political or social thesis.

SPC 4360. Interviewing (3). 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). Recommended prerequisite: SPC 3425. A review of concepts and research in group process and group leadership.

SPC 4516. Evidence (3). Prerequisite: SPC 3513. The study of principles of evidence and proof in law, historical investigation, scientific discovery, and the social sciences. An analysis of argument and proof modes used for public policy decision making with an emphasis on developing standards of proof for public consumers of information as well as policymakers.

SPC 4540. Persuasion (3). 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). Prerequisite: SPC 2600. History and principles of speechwriting, the ethical issues involved, and speechwriting skills based on sound principles of communication.

SPC 4630. Rhetoric of Womens Issues (3). Recommended prerequisite: SPC 2600. Examination of selected social and political issues which affect women today; analysis of content, lines of argument, supporting evidence, and rhetorical strategies.

SPC 4634. Rhetoric of Race Relations (3). History of the struggle for freedom and equality from pre-Civil War spokesmen to the 20th-century Black nationalists as evidenced in texts of selected public speeches and reaction to them.

SPC 4651r. Rhetoric of Contemporary Issues (3). Examination and analysis of the problems and questions which confront our society from a rhetorical perspective; how communication skills and strategies have affected our perceptions and understanding of events. May be repeated to a maximum of six (6) semester hours. Duplicate registration is not allowed.

SPC 4680. Methods of Rhetorical Criticism (3). Prerequisite: SPC 3231 or 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 text.

SPC 4710. Interracial/Intercultural Communication (3). An exploration of interracial and intercultural communication and the philosophies that underlie the concept.

SPC 4711. Gender and Communication (3). 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 5503. Media Consumer Behavior (3).

ADV 5505. Media Market Research (3).

COM 5126. Organizational Communication Theory and Practice (3).

COM 5127. Assessing Organizational Communication (3).

COM 5145. Communication Issues in Organizational Development (3). (S/U grade only.)

COM 5305r. Interactive Communication Research (1-3).

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. Computers in Communication Research (3).

COM 5336r. Interactive-Media Programming and Design (3).

COM 5337. Interactive Programming and Design for CD-ROM (3).

COM 5338. Desktop Multimedia (3).

COM 5339. Interactive Programming and Design for the Web (3).

COM 5340. Historical-Critical Methods of Research (3).

COM 5401. Analysis of Communication Theory (3).

COM 5467. System Thinking and Project Management (3).

COM 5469. Communication Planning and Dispute Resolution (3).

COM 5546. Political Communication (3).

COM 5906r. Directed Individual Study (3). (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 6400r. Seminar in Communication Theory (3).

COM 6401r. 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).

MMC 5305. Comparative Systems of Mass Communication (3).

MMC 5600. Mass Communication Theory and Effects (3).

MMC 6920r. Colloquium in Mass Communication (3).

RTV 5253. New Communication Technology Theory and Research (3).

RTV 5702. Communication Regulation and Policy (3).

RTV 6425r. Advanced Seminar in New Communication Technologies (3-6).

SED 5340. Teaching Communication in College (3).

SED 5346. Teaching Oral Communication Courses (3).

SPC 5234. Classical Theories of Rhetoric (3).

SPC 5442. Group Dynamics and Leadership (3).

SPC 5545. Studies in Persuasion (3).

SPC 5614. Criticism of Contemporary Public Address (3).

SPC 5639. Rhetoric of Women's Issues (3).

SPC 5645. Rhetoric and Human Affairs (3).

SPC 5655. Political Rhetoric: Language and Persuasion (3).

SPC 6236. Contemporary Rhetorical Theory and Criticism (3).

SPC 6306. Contemporary Topics in Interpersonal Communication (3).

SPC 6920r. Colloquium in Speech Communication (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of COMMUNICATION DISORDERS

COLLEGE OF COMMUNICATION

Chair: Richard Morris; *Professors:* Goldstein, Hardiman, La Pointe, Wetherby; *Associate Professors:* Bourgeois, Crowley, Morris, Walker; *Assistant Professors:* Kemker, Lasker, Stierwalt; *Visiting Associate Professor:* Woods; *Associates in Communication Disorders:* Blumsack, Hudson; *Assistants in Communication Disorders:* Justl, Landis, McClung; *Professors Emeriti:* Haas, Schendel

The mission of the Department of Communication 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 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. The mission is operationalized through clinical and traditional instructional programs, professional and clinical service, and clinical research. The department provides education for students seeking the bachelor of science (BS), master of science (MS), advanced master (AM), and doctor of philosophy (PhD) degrees. The department does not offer a degree in education of the deaf nor in sign language interpretation.

Students enrolled in programs of the Department of Communication Disorders at The Florida State University are provided unique experiences because of the learning environment. The department is a member of the College of Communication, which provides numerous collateral educational experiences. The L.L. Schendel Speech and Hearing Clinic provides 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 communicative disorders. This 40-room facility is the central focus of learning and service activities. Videotape laboratories, diagnostic audiology instrumentation, sound isolation rooms, non-speech systems, and a complement of other clinical resources serve for clinical instruction.

The department also maintains a number of communication science 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 science, voice science, hearing science, emerging language, and adult language.

Requirements for an Undergraduate Major in Communication Disorders

All students enter the program at the junior level and must have a minimum grade point average (GPA) of 2.8 for all course work, have successfully completed The Florida State University's liberal studies requirements, and have passed or been exempted from the CLAST. Admission to The Florida State University does not ensure admission to the Department of Communication Disorders, **nor does attainment of the minimum grade point average.** Formal application to the department is required of all entering majors. Normally, admission is for the fall semester. All materials necessary for admission applications must be submitted directly to the department by March 1st. Students are recommended to include MAC 1105 and STA 2122 in their pre-major coursework.

The curriculum leading to the baccalaureate degree combines liberal arts education with preprofessional preparation for the graduate program in the department 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 speciality curricula initiated during the senior year. To qualify for graduation from the major, all undergraduates in communication 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 course work.

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; and 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 of the American Speech-Language-

Hearing Association (ASHA) and prepares students to work in hospital, clinical, school, or private settings with a variety of developmental and acquired communication disorders.

Requirements for a Minor in Communication Disorders

Requirements for an undergraduate minor in communication disorders are twelve (12) semester hours in departmental courses, with a grade of "C" (2.0) or better in each course. At least six (6) of the twelve (12) semester hours must be completed at The Florida State University. Department approval must be obtained before taking any courses as a minor. Please note that a minor in the department does not qualify a student to apply for our graduate program in speech-language pathology nor for professional certification or licensure.

Definition of Prefixes

LIN — Linguistics
SPA — Speech/Language Pathology and Audiology

Undergraduate Courses

LIN 3200. Fundamentals of Phonetics (3). 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.

LIN 3200L. Fundamentals of Phonetics Laboratory (1). Prerequisites: Communication disorders majors only. Corequisite: LIN 3200. Laboratory for LIN 3200.

LIN 3710. Normal Communication Development (3). Presents an overview of the cognitive, social, and neurological bases of communication development. Delineates the stages of language development for pragmatics, semantics, and syntax. Highlights the language differences of nonstandard English dialects and bilingualism and introduces language disorders.

SPA 1612C. Beginning American Sign Language (4). This course is designed to introduce students to the vocabulary, grammar, and non-verbal aspects of American Sign Language with an emphasis on basic dialogue skills.

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/accents differences. Speaking activities are designed to meet the student's professional goals.

SPA 2613C. Intermediate American Sign Language (4). Prerequisite: SPA 1612. This course is designed to expand the students' comprehension and production of American Sign Language with a primary emphasis on dialogue. Focus is on increased vocabulary, conceptual accuracy, verb inflections, and ASL idioms.

SPA 2614C. Advanced American Sign Language (4). Prerequisite: SPA 2613C. This course is designed to produce a fluent sign language user with high-level encoding (production), decoding (reception), and pragmatic skills (cultural rules for conversation) when signing dialogues and narratives.

SPA 2620. Introduction to Sign Language Systems (2). Introduction to the deaf culture and to sign language as a communication system; encoding and decoding skills of Signed English and finger spelling.

SPA 2633. Deaf Culture (3). This course is designed to acquaint students with the political, cultural, educational and social parameters of Deaf culture. International and United States perspectives are included.

SPA 3000. Introduction to Language Development and Communication Disorders (3). Normal language and speech development. Overview of major communication disorders and their causes and the nature of hearing disabilities. Nonmajors only.

SPA 3201. Phonological Development and Disorders (3). Prerequisite: LIN 3200C. Types of articulation problems and their etiologies; diagnostic techniques for articulation. A laboratory is required.

SPA 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

SPA 4007r. Undergraduate Seminar in Communication Disorders (1-3). Prerequisite: Consent of instructor. A seminar to provide 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 three (3) semester hours.

SPA 4011C. Introduction to Communication Science (4). 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 4032. Introduction to Hearing Science (3). An introduction to the anatomy and physiology of the ear, instrumentation in audiometry, and psychoacoustics.

SPA 4050r. Clinical Observation and Practice (3). (S/U grade only.) Prerequisites: SPA 3201, 4302, 4400. Supervised practice in therapeutic procedures with persons with various speech-language problems. May be repeated to a maximum of three (3) semester hours. Students may enroll in more than one section during the same semester.

SPA 4101C. Anatomy and Physiology of the Speech Mechanism (4). An introduction to the anatomy and physiology of the systems underlying speech production: respiration, phonation, articulation and resonance. The anatomy and physiology of the ear are also introduced. Lecture and laboratory experiences.

SPA 4104. Neurological Bases of Communication (4). Normal neuroanatomy, neurophysiology, and neuropathologies effecting communication. Prior speech anatomy needed.

SPA 4222. Introduction to Fluency Disorders (3). Nature and causes of stuttering disorders; theory and treatment.

SPA 4302. Introduction to Clinical Audiology (3). 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.) Prerequisite 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. Diagnostic-evaluation and (re)habilitation techniques.

SPA 4400. Children's Language Disorders (3). Prerequisite: LIN 3710. Introduction to etiologies, behavioral observations, tests, and basic management procedures of language impairment.

SPA 4411. Acquired Language Disorders (3). Prerequisites: LIN 3710; SPA 4104. Provides the student with the etiological, diagnostic, prognostic, psychosocial, and clinical management aspects of aphasia, apraxia, and dementia; also includes communication problems of patients with right hemisphere damage.

SPA4431. Nature of Autism and Severe Communication Disorders (3). The purpose of this course is to provide 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 4501. Clinical Methods (3). This course is designed to acquaint the major with the organizational structures and operations of various professional work settings.

SPA 4800. Research Evaluation (3). Elements of quantitative research; application of psychophysiological research methods to human communication problems.

SPA 4905r. Directed Individual Study (1-3). May be repeated to a maximum of eight (8) semester hours. Students may enroll in more than one section during the same semester.

SPA 4970r. Honors Thesis in Communication Disorders (1-6). Prerequisites: Admission to honors program and Department of Communication Disorders. 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 students interest. May be repeated to a maximum of nine (9) semester hours.

Graduate Courses

SPA 5055r. Professional Tools in Speech-Language Pathology (1-3).

SPA 5132. Speech Science (3).

SPA 5133r. Instrumentation in Communication Science (1-3).

SPA 5204. Phonological Disorders (3).

SPA 5211. Voice Disorders (3).

SPA 5225. Fluency Disorders (3).

SPA 5230. Motor Speech Disorders (3).

SPA 5252. Structure-Based Communication Disorders (3).

SPA 5254. Neurologic-Based Communication Disorders (3).

SPA 5301Lr. Audiology Laboratory (1).

SPA 5305Lr. Measurement and Management of Impaired Hearing (1-3).

SPA 5322. Advanced Aural (Re)habilitation (3).

SPA 5354. Industrial Audiology (2).

SPA 5401. Language-Learning Disabilities in School-Age Children (3).

SPA 5404. Communication Intervention: Infants and Preschoolers (3).

SPA 5432. Autism and Severe Communicative Disabilities (3).

SPA 5460. Foundations of Developmental Communication Disorders (3).

SPA 5462. Current Issues in Developmental Communication Disorders (3).

SPA 5500. Clinical Practicum in the Schools (3).

SPA 5505r. Advanced Speech-Language Pathology Practicum (1-3).

SPA 5506r. Advanced Audiology Practicum (1-3).

SPA 5522. Medical Speech Pathology (3).

SPA 5526L. Laboratory in Child Speech-Language Diagnostics (1-3).

SPA 5528L. Laboratory in Adult Speech-Language Diagnostics (1-3).

SPA 5553. Seminar in Clinical Differential Diagnosis (1).

SPA 5553L. Laboratory 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 5564. Communication and Aging (3).

SPA 5565. Seminar in Dysphagia (3).

SPA 5646. Speech and Language for the Hearing Impaired (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 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 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 course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of COMPUTER SCIENCE

COLLEGE OF ARTS AND SCIENCES

Chair: Sudhir Aggarwal; *Professors:* Aggarwal, Baker, Desmedt, Gallivan, Hawkes, Kohout, Lacher, Levitz, Mascagni, Riccardi, Whalley; *Associate Professors:* Banks, Schwartz, Turner; *Assistant Professors:* Douglas, Liu, McDuffie, VanEngelen, Yasinsac, Yuan; *Visiting Professors:* Burmester, Van Dooren; *Visiting Assistant Professor:* Srinivasan; *Courtesy Professors:* Carpenter, Conrad, Erlebacher, Fox, Gaede, Harmon, Hussaini, Kacmar, Simons, Srivastava; *Computing Resources Manager:* Sprague; *Associates in Computer Science:* Baldauf, Gaitros; *Assistants in Computer Science:* Myers, Scott, Sprague, Stoecklin; *Assistant Scholar/Scientist:* Leach

The mission of the Department of Computer Science is to provide students with the fundamental knowledge and interdisciplinary problem-solving skills required for a fulfilling career, and to create and disseminate knowledge to improve computer science education and practice.

A student in the department can look forward professionally to employment in an industrial or financial firm, a governmental agency, or secondary, college, or university teaching.

In computer science education, whether graduate or undergraduate, keeping up with progress in the field 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 state-of-the-art machines and software.

The Department of Computer Science offers graduate programs leading to the master of science and doctor of philosophy degrees. The department also has a number of active research programs in a) core disciplines such as programming languages, compilers, real-time systems, networks, parallel computation, databases, fault tolerance, and foundations; b) scientific and engineering applications areas, including scientific problem solving environments and large scale scientific and computation databases; c) computer and network security, including cryptography; and d) advanced technology sciences, including neural networks, expert networks and fuzzy sets and systems. These research programs enjoy external support from agencies ranging from the National Science Foundation to the private sector.

Several research institutes and research centers have been established at the University. Several of our faculty members work closely with one of these, the **School of Computational Science and Information Technology (CSIT)**. It was established as a university-based multidisciplinary program to develop new algorithms and numerical methods to exploit various supercomputer architectural characteristics. Partially funded by the U.S. Department of Energy, CSIT consists of scientists, postdoctoral research fellows, graduate students, and supporting technical and administrative staff.

The Department of Computer Science has a full range of computing facilities available for a variety of instructional and research needs. Faculty and graduate students share a group of high-performance workstations, file servers, and compute servers over the departmental LAN. Students and faculty whose research requires higher computational power may apply for access to a variety of state-of-the-art machines, including supercomputers and computer clusters, across the University.

Other affiliated research laboratories include the following:

The **Security and Assurance in Information Technology (SAIT) Laboratory** is dedicated to synthesis of education and research through the combined focus on theory and application of information security techniques.

The **Embedded Systems/Compilers Laboratory** investigates a wide variety of issues related to embedded systems and compilers. Tools are constructed to assist compiler writers in optimization and retargeting.

The **Vision Laboratory** conducts research motivated by psychophysical data and neurophysiological findings to develop models for real-world problems.

The **Networking Laboratory** investigates issues related to QoS routing, communication algorithms, and message passing libraries.

Active research groups subjects include the following: brain imaging, realistic illumination, web-based 3D simulation, tools for distributed applications, tools for weather forecasting, probabilistic networks, knowledge-based management decision tools, random number generation, Monte Carlo and Quasi-Monte Carlo methods, grid-based computing, POSIX/Ada Real-time systems, application of fuzzy relations and non-classical logics, modeling and simulation environments.

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) and master of arts (MA) degrees, and the doctor of philosophy (PhD) degree in computer and information sciences (CIS). 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.

Accreditation

The undergraduate program in computer science is accredited by the Computer Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD, 21202-4012; (410) 347-7700.

Distance Learning

Both of the undergraduate majors (CS and SE) are available via Internet-supported distance learning. Certain limitations regarding students seeking admission to upper-division studies in the computer science department apply. For more information contact The Florida State University's Office for Distributed and Distance Learning at <http://www.oddl.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 Program and Honor Societies" chapter of this *General Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. MAC X311;

Note: the following courses, though **not required for admission** into the upper division major, **are required for completion of the degree:**

- a) COP XXXX (introductory programming in Ada, C, C++, or PASCAL or equivalent language);
- b) MAC X312;
- c) PHYX048/X048L;

- d) PHYX049/X049L or PHYX049C;
- e) Two science courses (six [6] semester hours) for science majors.

College Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Requirements for Majors in Computer Science

The undergraduate program in computer science is limited access. For each admission cycle (academic year) a minimum GPA is established by the Department of Computer Science that limits enrollment to a number of students consistent with the available faculty and space. In addition, students must have completed the State of Florida Common Course Prerequisite (MAC X311 and COP XXXX, Introductory Programming in C/C++ or Java) with the grade of "C-" or better in order to be considered for entrance. Upon entrance into the program, the student must maintain a 2.5 GPA to remain in good standing in the major.

A student who has accumulated more than five grades below "C-" (including grades of "U") in mathematics, statistics, natural science, or computer science courses taken for college credit at The Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department.

There are currently two majors for the CIS bachelors degree: computer science (CS), and software engineering (SE). In the following listing of requirements, courses that are required for only one major are marked with the major abbreviation in parentheses.

A grade of "C-" or better must be earned in each of the following courses: CDA 3101; CEN 4010 (SE); COP 3330, 3331, 3502, 4020 (CS); 4530, 4531, 4610, 4710; COT 4420(CS), 4425(SE); MAC 2311, 2312; MAD 2104 and MAD 3105, or MAD 3107; SPC 2600; STA 4442; another advanced mathematics, statistics, or theoretical computer science course approved by the department, with a prerequisite of calculus or discrete mathematics.

In addition, the student must complete at least twelve (12) semester hours of computer science electives, at least nine (9) semester hours of which must be at the 4000 level. One of the electives must cover an additional programming language not presented in the other required course offerings. The student must complete PHY 2048C, 2049C and six (6) additional semester hours of science in a discipline(s) other than physics. All courses used to satisfy the science requirement must be identified as "For Science Majors" within the Liberal Studies Program (or have such a course as a prerequisite). Approval is to be requested prior to registration for the elective courses. All students are required to complete an exit survey for both the Department of Computer Science and the College of Arts and Sciences during their term of graduation. These forms may be

obtained from the Academic Coordinator's Office (Room 203C Love Building). Students following this degree will complete a total of at least one hundred twenty (120) semester hours in order to satisfy all University and major requirements.

Minor

The required collateral courses in mathematics, physics, and statistics constitute an acceptable interdisciplinary minor. Students may contact the undergraduate advisor for information concerning other acceptable minors.

Requirements for a Minor in Computer Science

A minor in computer science consists of twelve (12) semester hours in a specific combination of computer science courses at or above the 3000 level for which the student has obtained **written approval in advance** from the department. Students must also satisfy stated prerequisites before enrolling in any computer science course. A grade of "C-" or better must be earned in each course counted toward the minor.

Definition of Prefixes

CAP	—	Computer Applications
CDA	—	Computer Design/Architecture
CEN	—	Computer Engineering Software
CGS	—	Computer General Studies
CIS	—	Computer and Information Systems (special topics)
COP	—	Computer Programming (languages, data structures, software systems, operating systems, compiling)
COT	—	Computer Theory

Note: before taking any computer science 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 COP 4530 may not subsequently enroll in COP 3330; MAD 2104, nor MAD 3107.

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>.

CGS 2060. Computer Literacy (3). May not be applied towards computer science major or minor. Not open to students with credit in CGS 2100. An introduction to information processing and computer applications. Hands-on experience with microcomputer applications such as word processors, spreadsheets, and database managers.

CGS 2062. Computers and Society (3). Not open to a student following the major option in computer science or to a student with credit in CGS 3063. Impact of computers on so-

ciety: discussion of the nature of digital computers and the role of information processing in human affairs. This course does not teach how to use or program the computer but gives an understanding of the implications of the computer and computer science.

CGS 2100. Microcomputer Applications for Business/Economics (3). Prerequisite: MAC 1105. May not be applied towards computer science major or minor. Not open to students with credit in CGS 2060. 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.

COP 2400. Assembly Language Programming (2). Prerequisite: COP 3531. Basic machine organization; number systems and data representation; assembly language programming, including calling conventions for procedures; floating point arithmetic; interrupts and exception handling; advanced architectural features and alternative architectures.

COP 2721. Introduction to Database Systems and Internet Services (3). This course is a hands-on introduction to the principles of computer hardware and software, database systems, and the Internet. It explores the concepts and techniques that support website development. Students learn to design and implement simple database systems and to create websites that interact with databases.

CDA 3101. Computer Organization (3). Prerequisite: COP 3330, MAD 2104 or 3107. Basic design and organization of modern computers including CPU design, memory, I/O devices, and assembly language programming.

CDA 3120. Digital Networks (3). Prerequisite: MAD 2104. Boolean algebra and switching functions; gates and IC modules; combinational systems, their simplification and decomposition; symmetric functions; threshold logic; sequential machines; analysis and synthesis; design of digital networks and logic systems.

CGS 3066. Introduction to Internet Technology (3). Prerequisite: A previous course in computer science. Basic Unix; World Wide Web, Netscape, Mosaic, Lynx, Gopher, UseNet News, Wais, Mime, Netfind, Traceroute, X.500 directory services, Xv, HTML programming. Projects include developing Internet tours via the World Wide Web and developing WWW pages for government agencies, community organizations, and businesses; topology of FSU campus network and Tallahassee Metropolitan Network.

CGS 3403. Introduction to COBOL Programming for Business (3). Prerequisite: COP 2000 or CGS 3408. May not be applied toward a computer science major. Study of the use and management of COBOL in business and government organizations. Specific programs are developed to solve typical management and data-processing problems. Structured approaches to problems and design solutions are discussed in detail. Also taught by the College of Business.

CGS 3408. Introduction to Programming with the C Language (3). Prerequisite: MAC 1140. This course is an introduction to C programming. Topics include types, operators, and expressions; control flow; IO; functions and program structure; and software design techniques. Eight to ten programming projects are required.

CGS 3410. Scientific Programming with FORTRAN (2). Prerequisites: CGS 3408 or COP 2000; MAC 2312. The use of the programming language FORTRAN in the solution of scientific programming problems. Basic syntax of the language, data types, data manipulation statements, I/O, and subprograms. The advanced features of FORTRAN related to scientific applications. Case studies involving problems such as differential equations, numerical integration, and linear/non-linear equations.

CGS 3460. FORTRAN for Nonspecialists (3). Prerequisite: MAC 1105. May not be applied toward a computer science major. Introduction to programming; rudiments of FORTRAN, problem solving by computer, basic data types, basic control structures, arrays and subscripts, further control structures, subprograms, formatted input/output.

CGS 3468. IBM Assembly for Nonspecialists (3). Prerequisite: CGS 3408 or COP 2000. Basic machine organization. Programming in assembly language, including subroutines, macros, and I/O. Specifics of IBM mainframe families and assemblers. Job control language.

CIS 3931r. Intermediate Topics in Computer Science (2-3). Prerequisite: COP 3502. Topic and prerequisites will vary from term to term and section to section. Analyzes intermediate topics in the area of computer science. May be used as a self-contained study of a programming language in the context of applications for which the language is particularly suited. May be repeated to a maximum of nine (9) semester hours.

CIS 3943r. Internship in Computer Science (3-6). (S/U grade only.) Prerequisites: COP 4530; successful completion of 60 hours of coursework with a minimum overall GPA of 3.0, including 15 hours in computer science courses (prefixes of CAP, CDA, CEN, CGS, CIS, COP, COT) with a minimum GPA of 3.2; approval of internship coordinator required. Field placement in approved industry or government entity having significant information technology or computer science component by approval only. May be taken for variable credit and repeated (with departmental approval) but only three (3) semester hours may count towards graduation. Successful completion requires satisfactory job evaluation and demonstration of educational value of placement, usually via a paper and/or presentation. May be repeated to a maximum of twelve (12) semester hours.

CIS 3949r. Cooperative Education Work Experience (0). (S/U grade only.) Work experience with a firm or agency to be determined on an individual basis. May be repeated to a maximum of six (6) times.

COP 2721. Introduction to Database Systems and Internet Services (3). This course offers a hands-on introduction to the principles of computer hardware and software, database systems, and the Internet. It explores the concepts and techniques that support website development. Students learn to design and implement simple database systems and to create websites that interact with databases.

COP 3252. Internet Applications Programming with Java (3). Prerequisites: CGS 4406; COP 3330; or other C++ programming course. This course covers the applications of the Java language to education, electronic commerce, scientific research, and distributed systems in general. Topics include the following: the architecture of the Web, including software protocols for passing information in typical Web applications; introduction to the Java programming language; developing Graphical User Interfaces using Swing; an introduction to distributed objects using Java Remote Method Invocation (RMI); and server-side programming using Servlets and JDBC. Emphasis is placed on practical programming using these technologies.

COP 3330. Object Oriented Programming (3). Prerequisite: CGS 3408 or a comparable course in C or C++ programming. Pre- or Corequisite: COP 3502. Object-oriented programming in a modern programming language; classes, objects, inheritance, and polymorphism; introduction to data structures and container classes.

COP 3331. Object Oriented Analysis and Design (3). Prerequisite: COP 3330. An introduction to software engineering with emphasis on practical techniques for object-oriented analysis and design. The course covers the use of the Unified Modeling Language (UML) and an associated computer-aided software engineering (CASE) tool.

COP 3502. Introduction to Computer Science (3). Prerequisites: MAC 1105 and previous computer experience. 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.

CAP 4601. Introduction to Artificial Intelligence (3). Prerequisite: 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). Prerequisite: COP 4530. Topics include: 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 4150. Computer Architecture (3). Prerequisites: CDA 3101; MAD 3105 or 3107. High performance architecture design and analysis, including memory-system design, pipelining, vector computers, and multiprocessors.

CDA 4300. Microcomputer Data Communications (3). Prerequisites: COP 2400; CDA 3120. An introduction to microcomputer data communications geared toward the technical hardware components, the Intel 8250 UART and INTEL 8259 PIC, and interfacing user programs with these devices. Programs controlling these devices will be written in 8086 assembly language using various structured techniques.

CEN 4010. Software Engineering Principles and Practice (3). Prerequisites: see department. Topics in this course include classical and modern principles and practice of software engineering, including classical and object-oriented approaches to architecture, design, life cycle, and project management; software metrics; change management; teams and teaming tools; reusability, portability, and interoperability; requirements and specification.

CEN 4012r. Mentored Software Project (1-6). Prerequisite: CEN 4010. Experience creating or changing a large software system; putting principles of software engineering to practice. May be repeated to a maximum of six (6) semester hours.

CEN 4516. Distributed Systems and Networks (3). Prerequisites: CDA 3101; COP 3330. Computer networks and internetworks; distributed object technology; distributed system architecture; enterprise software systems; distributed process scheduling, file systems, shared memory, computer security, and fault tolerance.

CEN 4681. Expert Systems (3). Prerequisites: COP 4530. Topics include: 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 4406. Object Oriented Programming in C++ (3). Prerequisite: CGS 3408. May not be applied toward a computer science major. Basics of the C++ language. Objects and classes. Programming with classes. Constructors and destructors. Function and operator overloading. Master classes. The class iostream. Base and derived classes. Templates.

CIS 4360. Introduction to Computer Security (3). Prerequisite: CGS 3408 or equivalent programming course. Course covers computer security threats and attacks, covert channels, trusted operation systems, access control, entity authentication, security policies, models of security, database security, administering security, physical security and TEMPEST, and brief introductions to network security and legal and ethical aspects of security.

CIS 4362. Network Security and Cryptography (3). Prerequisites: COP 4530; MAD 2104 or 3107, or permission of the instructor. 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.

CIS 4407. Computer and Network System Administration (3). Prerequisites: CGS 4406, COP 3330, or other C++ programming course. This course offers a hands-on introduction to Unix and Microsoft Windows systems and network administration. Topics include the following: 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.

CIS 4900r. Directed Individual Study (1-4). May be repeated to a maximum of twelve (12) semester hours.

CIS 4930r. Special Topics in Computer Science (3). Prerequisite: at least six (6) semester hours in computer science or software engineering at or above the 4000 level. May be repeated to a maximum of twelve (12) semester hours.

CIS 4933r. Honors Work (3). May be repeated to a maximum of nine (9) semester hours.

COP 4020. Programming Languages (3). Prerequisite: COP 3331, 4530. A survey of programming languages and language features and an introduction to compilers. Languages to be discussed include Fortran, Pascal, Ada, PL/1, APL, and Lisp. Oral presentation required.

COP 4342. Unix Tools (3). Prerequisites: COP 3330, 3502. 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; MAD 2104 or 3107. Pre- or corequisite: CDA 3101. Definition, use and implementation of generic data structures using a modern programming language; reusable program components.

COP 4531. Complexity and Analysis of Data Structures and Algorithms (3). Prerequisite: COP 4530; MAD 3105 or 3107; STA 4442. Analysis of the complexity of algorithms, including sorting, searching, and graph algorithms; use and implementation of graphs.

COP 4610. Operating Systems and Concurrent Programming (3). Prerequisite: COP 4530. Pre- or Corequisite: CDA 3101. 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 4613. Real-Time Systems (3). Prerequisite: COP 4610. Survey of issues in the design and implementation of real-time computer systems. Topics include: the use of computers for controlling real-time processes, the use of Ada in embedded computer systems, and implementation of a real-time computer system.

COP 4710. Theory and Structure of Databases (3). Prerequisites: COP 3330 or CGS 4406; MAD 2104 or 3107. Theory of relational and object-oriented databases; relational database management systems and SQL; design, development, and implementation issues in database systems.

COT 4420. Theory of Computation (3). Prerequisite: COP 3331; MAD 3105 or 3107. Introduction to the theory of computation, including models of computation such as Turing machines; theory of programming languages, including grammars, parsing, syntax and semantics.

COT 4425. Formal Methods in Software Engineering (3). Prerequisites: COP 3331; MAD 3105 or 3107. Formal methods in software analysis and design, including formal specification and verification.

Graduate Courses

- CAP 5415. Principles and Algorithms of Computer Vision (3).
- CAP 5605. Artificial Intelligence (3).
- CAP 5615. Artificial Neural Networks (3).
- CAP 5625. Relational Methods in Knowledge and Software Engineering (3).
- CAP 5638. Pattern Recognition (3).
- CDA 5140. Fault Tolerance and Reliability (3).
- CDA 5155. Computer Architecture (3).
- CEN 5000. Knowledge Management and Data Engineering (3).
- CEN 5026. Applicative Foundations of Software Engineering (3).
- CEN 5035. Software Engineering (3).
- CEN 5066. Software Engineering in Graphics (3).
- CEN 5515. Data and Computer Communications (3).
- CEN 5521. Networking Personal Computers (3).
- CEN 5720. Computer-Human Interaction (3).
- CGS 5067. Advanced Navigating the Internet (3).
- CGS 5266. Digital Design (3).
- CGS 5267. Principles of Computer Organization (3).
- CGS 5275. Assembly and Machine Language (2).
- CGS 5425. Object-Oriented Programming with Data Structure (3).

CGS 5426.	Programming Language Concepts (3).	CIS 5930r.	Selected Topics in Computer Science (1–3).	CIS 6900r.	Directed Individual Study (1–12). (S/U grade only.)
CGS 5427.	Algorithm Design and Analysis (3).	CIS 5935.	Introductory Seminar on Research (2). (S/U grade only.)	CIS 6930r.	Advanced Topics in Computer Science (1–3).
CGS 5428.	Relational Database Theory (3).	CIS 5940r.	Supervised Teaching (1–5). (S/U grade only.)	CIS 6935r.	Advanced Seminar in Computer Science (1).
CGS 5429.	Introduction to Computer Theory (3).	COP 5570.	Advanced UNIX Programming (3).	For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the <i>Graduate Bulletin</i> .	
CGS 5469.	FORTRAN for Graduate Nonspecialists (3).	COP 5611.	Operating Systems (3).		
CGS 5765.	Principles Operating Systems (3).	COP 5621.	Compiler Construction (3).		
CGS 5822.	Applications of Information Technology with Java (3).	COP 5622.	Advanced Topics in Compilation (3).		
CIS 5357.	Network Security, Active and Passive Defenses (3).	COP 5725.	Database Systems (3).		
CIS 5370.	Computer Security (3).	COT 5310.	Theory of Automata and Formal Languages (3).		
CIS 5371.	Cryptography (3).	COT 5315.	Programming Language Foundations (3).		
CIS 5406.	Computer and Network Administration (3).	COT 5410.	Complexity of Algorithms (3).		
CIS 5900r.	Directed Individual Study (1–4). (S/U grade only.)	COT 5421.	Theory of Computability (3).		
CIS 5910r.	Supervised Research (1–5). (S/U grade only.)	COT 5540.	Logic for Computer Science (3).		
CIS 5915r.	Graduate Software Project (1–6). (S/U grade only.)	CAP 6417.	Theoretical Foundations of Computer Vision (3).	<p style="text-align: center;">CONSUMER AFFAIRS: see Textiles and Consumer Sciences</p> <p style="text-align: center;">COUNSELING PSYCHOLOGY AND HUMAN SYSTEMS: see Educational Psychology and Learning Systems</p>	
CIS 5920r.	Colloquium (1). (S/U grade only.)	CAP 6616.	Autonomous Behavior in Artificial Neural Systems (3). (S/U grade only.)		

CRIMINOLOGY AND CRIMINAL JUSTICE

SCHOOL OF CRIMINOLOGY AND CRIMINAL JUSTICE

Professors: Blomberg, Chiricos, Doerner, Gertz, Kleck, Maier-Katkin, Waldo; *Associate Professors:* Bullington, Coonan, Greek; *Assistant Professors:* Close, Kerbs, Kutnjak Ivkovich, Li Peterson; *Visiting Professor:* Currie; *Internship Director:* Bedard; *Professors Emeriti:* Bassin, Czajkoski, Jeffery, Kirkham

The School 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 the doctor of philosophy (PhD) degrees. In addition to the general criminology and criminal justice degree programs, a dual master's program is offered with the School of Public Administration and Policy. For undergraduates, certificates are available in corrections, law enforcement, and security administration. Evening programs are offered for undergraduate and graduate students.

Refer to the "School of Criminology and Criminal Justice" chapter in this *General Bulletin* for additional details on degree requirements, the school, student opportunities, and financial aid.

Requirements

Admission for a Major

Students are eligible to major in criminology and criminal justice after completing a program of liberal studies with an overall grade point average

(GPA) of 2.0 or above. Enrollment as a major in criminology and criminal justice requires no specific lower-division courses as prerequisites.

All students of The 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 in arts degree from a Florida public community college or state university will be considered to have met the liberal studies requirement.

Major Requirements

To major in criminology and criminal justice, a student must complete forty-five (45) semester hours in criminology, including five (5) core courses. An optional one-semester full-time internship (CCJ 4940) is available to fulfill fifteen (15) semester hours of the required course work. A minor is not required by the School of Criminology and Criminal Justice for completion of the major.

Students seeking to transfer from another major within the University, must:

- 1) Submit a written essay (no more than 500 words) stating why they are interested in the field of criminology or criminal justice studies;
- 2) Must register for fifty percent (50%) of their credits in criminology or criminal justice the semester immediately following their transfer into the school; and,
- 3) Must be in good academic standing (2.0 or higher overall GPA) and have passed the CLAST exam.

For students transferring from another four year university, at least twenty-seven (27) semester hours must involve courses taken within the School of Criminology and Criminal Justice; the

University requires the last thirty (30) semester hours prior to graduation be taken at The Florida State University. In addition, all regular University requirements must be met for both the bachelor of arts (BA) and the bachelor of science (BS) degrees.

Core Courses

The five (5) core courses are Criminology (CCJ 3011), Law Enforcement (CJE 3110), Courts (CJL 3510), Corrections (CJC 3010), and Introduction to Research Methods in Criminology (CCJ 4700). The core courses are expected to be taken at The Florida State University. A minimum grade of "C" (2.0) must be obtained in each core course.

Internships

A variety of internships are available at the local, state, and federal levels in 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 3011, 4700; CJC 3010; CJE 3110; CJL 3510) and have satisfied the CLAST 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, The Florida State University will not be liable if a student cannot be placed. Students are usually responsible for all living and transportation expenses during the field experiences.

Minor Requirements

For information concerning requirements for the minor in criminology and criminal justice, please refer to the 'Minor Requirements' section in the "School of Criminology and Criminal Justice" chapter in this *General Bulletin*.

Certificates

The School of Criminology and Criminal Justice offers three certificate programs: corrections, law enforcement, and security administration.

Honors in the Major

The School of Criminology and Criminal Justice encourages its honor students to participate in the honors in the major program. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

CCJ	—	Criminology and Criminal Justice
CJC	—	Criminal Justice: Corrections
CJE	—	Criminal Justice: Law Enforcement
CJJ	—	Criminal Justice: Juvenile Justice
CJL	—	Criminal Justice: Law and Process
CJT	—	Criminal Justice Technology

Undergraduate Courses

CCJ 1005. Criminology Freshmen Seminar (3). This course introduces criminology students to pivotal readings and philosophies of the criminal justice system and exposes students to a variety of speakers and opinions related to criminal justice.

CCJ 2020. Introduction to Criminal Justice (3). This course is designed to provide freshman and sophomore students with knowledge of terminology, classification systems, trends, and theories of criminal justice. Not open to criminology majors beyond their first term as a junior.

CJC 3010. Corrections (3). An overview of correctional philosophies, practices, and procedures.

CCJ 3011. Criminology (3). An examination of the field of criminology, including its theories, basic assumptions, and definitions.

CJE 3110. Law Enforcement (3). An advanced survey of law enforcement concentrating on the police, with emphasis on functions (law enforcement, order maintenance, public service) and responsibilities (e.g., preservation of constitutional rights, community relations), including organizational and management aspects.

CJL 3510. The Courts (3). Jurisdiction, policies, and procedures of courts in the administration of criminal justice.

CCJ 3654. Drugs, Alcohol, and Crime (3). History, pharmacology, health consequences, and crime-related aspects of mind-affecting drugs. Emphasis on effects on criminal behavior, the legal response to the problem, and on treatment and prevention of abuse.

CCJ 3666. Victimology (3). 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 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

CJL 4010. Juvenile Justice (3). 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.

CCJ 4031. The Individual and Society (3). Understanding normal human behavior and development in social context.

CJL 4064. Individual Rights and the Criminal Justice System (3). 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). 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.

CJE 4114. Police Problems and Practices (3). 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.

CJC 4166. Probation, Pardon, and Parole (3). Sentencing patterns and problems, social investigation, release organization, and administrative procedures.

CJC 4167. Probation and Parole Supervision (3). Techniques and theory of probation and parole supervision with emphasis on treatment and counseling, use of role-playing as a learning device, reality therapy, group process, and behavior modification procedures.

CCJ 4209. Courts and Social Policy (3). The role the courts pursue 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 will be examined using current social policy.

CCJ 4283. Foundational and Philosophical Issues in the Criminal Justice System (3). An examination of the most important foundational and philosophical issues in the criminal justice system which includes the justification of criminal law, the relationship between law and morality, and the moral rationale of punishment.

CJC 4410. Theories and Methods of Offender Treatment (3). Theories and techniques which 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.

CJC 4411r. Methods of Offender Treatment Practicum—Men Helping Men (3). Prerequisite: CCJ 4341. Course allows students to implement the theories and methods of treatment in a correctional setting. Students work directly under the professor implementing and co-facilitating abuse and violence intervention.

CJL 4410. Legal Aspects of Law Enforcement (3). The nature of law enforcement agencies in American jurisprudence—laws of arrest and rules of evidence.

CCJ 4601. Human Behavior (3). The study of 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 4610. Criminal and Delinquent Behavior (3). An examination of patterns of criminal and delinquent behaviors in the light of theories and classification concepts.

CJE 4610. Crime Detection and Investigation (3). Introduction to the lawful gathering and evaluation of information concerning criminal acts, with attention to the fundamentals of investigation, the organization and management of the investigative process, and the knowledge and skills necessary for investigation.

CCJ 4662. Minorities, Crime, and Social Policy (3). The involvement of minorities, especially Afro-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. Female Crime and Delinquency (3). A flexible forum for the study and discussion of female crime and delinquency.

CCJ 4700. Introduction to Research Methods in Criminology (3). Basic methodological and statistical issues in criminology.

CCJ 4816. Public and Private Security (3). 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.

CCJ 4905r. Directed Individual Study (1–4). 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 (12) semester hours. Enrollment requires prior approval of instructor and dean.

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 (12) semester hours.

CCJ 4933r. Seminar in Criminology (3). Varying topics of selected interest and contemporary significance, discussed in a seminar format. May be repeated to a maximum of six (6) semester hours.

CCJ 4938r. Special Topics in Criminology (1–3). Contents of this course vary as instructors present different developments, problems, and controversies. May be repeated to a maximum of twelve (12) semester hours. May be repeated during the same semester.

CCJ 4940. Internship in Criminology (15). (S/U grade only.) Field placement in an approved criminal justice agency for integration of theory and practice through participant observation study.

Graduate Courses

CCJ	5016.	Crimes of the Powerful (3).
CJJ	5020.	Juvenile Justice (3).
CJE	5024.	Police and Society (3).
CCJ	5026.	Social Justice (3).
CCJ	5027r.	Seminar in Social Justice (3).
CCJ	5028r.	Seminar in Criminal Justice (3).
CCJ	5029.	The Political Economy of Crime and Justice (3).
CCJ	5078.	Computer Applications in Criminal Justice (3).
CCJ	5082.	Science, Evidence and the Law (3).
CCJ	5285.	Survey of Criminal Justice Studies (3).
CCJ	5309.	Penology (3).
CJL	5420.	Criminal Laws, Criminal Procedure and Individual Rights (3).
CCJ	5456.	Criminal Justice Administration (3).
CCJ	5485.	Organizations and Public Policy in Criminal Justice (3).
CJL	5520.	Structure and Process of the American Court System (3).
CCJ	5546.	Prevention and Treatment of Crime and Delinquency (3).
CCJ	5605.	Theory in Criminology and Criminal Justice (3).
CCJ	5606.	Survey of Criminological Theories (3).

CCJ 5607.	History of Criminological Thought (3).	CCJ 5707.	Qualitative Methods in Criminology (3).	CCJ 6708.	Seminar in Crime Research (3).
CCJ 5609.	The Conduct of Inquiry in Criminology and Criminal Justice (3).	CCJ 5710.	Research Practicum (3).	CCJ 6741.	Advanced Data Analysis in Criminology and Criminal Justice (3).
CCJ 5613.	Integrated Systems Theory of Maladaptive Behavior (3).	CCJ 5740.	Data Analysis in Criminology and Criminal Justice (3).	CCJ 6920r.	Seminars in Theoretical Criminology (3).
CCJ 5625.	Ecology of Crime (3).	CCJ 5944.	Supervised Teaching (3). (S/U grade only.)	For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the <i>Graduate Bulletin</i> .	
CCJ 5636.	International Crime and its Control (3).	CCJ 5945.	Field Practice in Criminology (9). (S/U grade only.)	<p style="text-align: center;">CRITICAL THEORY: see <i>Graduate Bulletin</i></p> <p style="text-align: center;">CZECH: see Modern Languages and Linguistics</p>	
CCJ 5669.	Race, Ethnicity, Crime and Social Justice (3).	CCJ 5946r.	Criminal Justice Practicum (3–6). (S/U grade only.)		
CCJ 5672.	Gender, Crime and Justice (3).	CCJ 5971r.	Thesis (1–6). (S/U grade only.)		
CCJ 5704.	Introduction to Research Methods and Statistics (3).	CCJ 5974.	Area Paper in Criminology (3). (S/U grade only.)		
CCJ 5705.	Research Methods in Criminology I (3).	CCJ 5981r.	Directed Individual Study (3). (S/U grade only.)		
CCJ 5706.	Applied Statistics in Criminology I (3).	CCJ 6608r.	Advanced Seminar in Criminological Theory (3).		

Department of DANCE

SCHOOL OF VISUAL ARTS AND DANCE

Chair: Elizabeth Patenaude; *Professors:* Davis, Farrell, Fichter, Patenaude, Sias, Sommer, Young, Zollar; *Associate Professors:* Austin, Corbin, Morgan, Perpener, Phillips, Sandifer, Welsh; *Assistant Professors:* Glenn, Humphreys; *Assistant in Dance:* Clark

The Department of Dance offers work leading to the bachelor of fine arts (BFA) degree in dance in an environment conducive to the highest calibre of dance training, practice and scholarship. Our vision of dance in higher education encourages fluidity between the living art form and scholarly investigation, and dynamic interaction between the training of dancers and the development of scholars. This approach is intended to foster cultivation of the individual's creative, performance, and scholarly voices through exposure to diverse practical and philosophical approaches to dance studies and the development of critical thought processes.

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, the following constitute the emphasis of the undergraduate major curriculum at this University: performance and choreography. The theoretical aspects of dance (pedagogical, historic, 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 department'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 program's facilities include spacious studios and **The Nancy Smith Fichter Dance Theatre.**

In addition to the dance major degree program, the department offers some liberal studies course work and elective course work for the general University student. The department 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. Interested students should consult the *Graduate Bulletin* for details.

The Florida State University Department of Dance 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 departmental 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 through-

out 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 three performing experiences sponsored by the department.

Florida Teacher Certification in Dance

A program will be designed for the BFA degree-seeking student who wishes K–12 teacher certification in dance. Additional hours beyond the one hundred twenty-eight (128) semester hours required for the BFA degree are necessary to achieve full certification.

Liberal Studies

All students working toward a degree in dance are required to meet the liberal studies requirements.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading.

Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common prerequisites or approved substitutions necessary for this degree program:

Dance—BFA Track

Any twenty-four (24) semester hours from the following thirty (30) semester hours will be accepted toward the major:

1. DAN 2610 (3) or DAN 2600 (3);
2. DAN 2611 (3) or DAN 2601 (3);
3. DAA 2610 (2);
4. DAA 2611 (2);
5. DAA 2656 (2) and DAA 2681 (2), or any lower level repertory courses in the 400–499 series up to four (4) semester hours;
6. Up to eight (8) semester hours of any lower level ballet technique courses (with the DAA prefix) within the 200–209 taxonomy;
7. Up to eight (8) semester hours of any lower level modern technique courses (with the DAA prefix) within the 100–109 taxonomy.

Note: although credit toward the major will be given for these, placement in upper level technique classes will continue to be based on individual student proficiency.

Minimum Requirements for the BFA in Dance

1. Dance Technique: Forty-four (44) 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, they may elect to take only one of the technique courses (either ballet or contemporary dance) during one term of the senior year;

++ = Limited access and limited enrollment by audition or video review (special talent). See the “Admissions” chapter of this *General Bulletin* for information on limited access programs.

2. Dance Composition and Repertory. Eleven (11) semester hours including DAA 2610, 2611, 3614, 3654r, 4615;

3. Other Dance Courses. Thirty-one (31) semester hours, including DAN 3754; Dance Ensemble (one [1] semester hours of DAA 1680r, 2681r, 3684r, or 4685r); DAE 3384; DAN 2610, 2611, 3144, 3145, 3146, 3445, 3504, 3584r, and 3714.

4. Liberal Studies. Thirty-six (36) semester hours. Three (3) hours of the history and philosophy of dance courses— DAN 3144, 3145, 3146 may be applied to Area IV of liberal studies requirements;

5. Electives: Six to nine (6–9) semester hours. Students exercising the option under requirement four just above will complete nine (9) elective semester hours.

Total: One hundred twenty-eight (128) semester hours.

The applicability of previous course work to dance curricular requirements is assessed and determined by the Department 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 departmental course requirements for graduation and if they have achieved the required technical proficiency levels prior to accumulation of the maximum hours in technique.

Honors in the Major

The Department 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 Program and Honor Societies” chapter of this *General Bulletin*.

Definition of Prefixes

DAA — Dance Activities
DAE — Dance Education
DAN — Dance

Undergraduate Courses

DAN 4900r. Honors Study in Dance (1–6). Admission to honors in dance program required. Written thesis for creative or academic research done as part of the honors in dance program. May be repeated to a maximum of nine (9) semester hours.

DAN 4935r. Special Topics in Dance (1–3). Prerequisites: Vary depending on topic. Topics may vary from term to term. May be repeated to a maximum of twelve (12) semester hours.

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 (2). Each course may be repeated to a maximum of six (6) semester hours.

DAA 1201r. Beginning Ballet II—Nonmajors (2). Faculty placement or permission of instructor required. Each course may be repeated to a maximum of six (6) semester hours.

DAA 1202r. Beginning Ballet III—Nonmajors (2). Faculty placement or permission of instructor required. Each course may be repeated to a maximum of six (6) semester hours.

DAA 2203r. Intermediate Ballet—Nonmajors (2). Faculty placement or permission of instructor required. May be repeated to a maximum of twelve (12) semester hours.

DAA 3208r++. Ballet I (1–3). Majors only. Faculty placement or permission of instructor required. May be repeated to a maximum of twelve (12) semester hours.

DAA 3209r++. Ballet II (1–3). Majors only. Faculty placement or permission of instructor required. May be repeated to a maximum of twenty-four (24) semester hours.

DAA 4210r++. Ballet III (1–3). Majors only. Faculty placement or permission of instructor required. May be repeated to a maximum of twenty-four (24) semester hours.

Contemporary Dance

DAA 1100r. Beginning Contemporary Dance I—Nonmajors (2). Each course may be repeated to a maximum of six (6) semester hours.

DAA 1101r. Beginning Contemporary Dance II—Nonmajors (2). Faculty placement or permission of instructor required. Each course may be repeated to a maximum of six (6) semester hours.

DAA 1102r. Beginning Contemporary Dance III—Nonmajors (2). Faculty placement or permission of instructor required. Each course may be repeated to a maximum of six (6) semester hours.

DAA 2103r. Intermediate Contemporary Dance—Nonmajors (2). Faculty placement or permission of instructor required. May be repeated to a maximum of twelve (12) semester hours.

DAA 3108r++. Contemporary Dance I (1–3). Majors only. Faculty placement or permission of instructor required. May be repeated to a maximum of twelve (12) semester hours.

DAA 3109r++. Contemporary Dance II (1–3). Majors only. Faculty placement or permission of instructor required. May be repeated to a maximum of twenty-four (24) semester hours.

DAA 4110r++. Contemporary Dance III (1–3). Majors only. Faculty placement or permission of instructor required. May be repeated to a maximum of twenty-four (24) semester hours.

Jazz

DAA 1500r. Jazz Dance I—Nonmajors (2). Prerequisite: Permission of instructor. This practical studio course introduces Jazz Dance as an art form while developing the basic skills and vocabulary of Jazz Dance. It is intended for non-dance majors only. May be repeated to a maximum of twelve (12) semester hours.

DAA 1501r. Jazz Dance II—Nonmajors (2). Prerequisite: Permission of instructor. This practical studio course explores Jazz Dance as an art form while developing the more advanced skills and vocabulary of Jazz Dance. For non-dance majors only. May be repeated to a maximum of twelve (12) semester hours.

Aspects of Dance Performance

DAA 1680r. Dance Ensemble (1). (S/U grade only.) Experience in dance ensemble and performance work. Official casting and faculty approval required. May be repeated to a maximum of three (3) semester hours.

DAA 2681r. Special Dance Performance (1). (S/U grade only.) Experience in dance ensemble and performance work. Official casting and faculty approval required. May be repeated to a maximum of three (3) semester hours.

DAA 3684r. Dance Ensemble (1). (S/U grade only.) Experience in dance ensemble and performance work. Official casting and faculty approval required. May be repeated to a maximum of three (3) semester hours.

DAA 3695r. Dance Performance (1–2). Majors only. Preparation and public performance of selected roles in dance repertory. Official casting and faculty approval required. May be repeated to a maximum of sixteen (16) semester hours.

DAA 4685r. Dance Ensemble (1). (S/U grade only.) Experience in dance ensemble and performance work. Official casting and faculty approval required. May be repeated to a maximum of three (3) semester hours.

Dance Composition and Repertory

DAA 2610–2611. Dance Composition [two (2) hours each]. Majors only. Prerequisite: DAN 2610. Exploration of basic rhythmic, spatial, and dynamic materials in the designing of dance movements; improvisation and exploration of various ideological and aesthetic sources.

DAA 3614. Dance Composition (2). Prerequisite: DAA 2611. Study of choreographic forms and structures, musical forms, extended temporal and dynamic studies, components of dramatic and stylistic forms.

DAA 3654r. Choreography–Repertory (2). The study and practice of selected works of dance repertory. May be repeated to a maximum of sixteen (16) semester hours. Permission of instructor required.

DAA 4615. Dance Composition (3). Prerequisite: DAA 3614. Extended choreographic process: production of extended choreographic works. Permission of instructor required.

Rhythmic and Musical Theory

DAN 2610. Rhythmic Analysis (3). Analysis of rhythmic structures and their relationship to dance form and composition.

DAN 2611. Music and Choreography (3). Prerequisite: DAN 2610. Analysis of various elements of music with relationship to dance performance and/or choreography.

Notation and Movement Analysis

DAN 3445. Labanotation (5). Prerequisite: DAN 2610. Beginning through intermediate skills are introduced and developed. Theoretical materials in labanotation are examined with emphasis on writing and developing reading skills.

DAN 3714. Movement Theory and Body Alignment (3). The study of movement theories and body alignment for the technical aspects of dance performance.

DAN 3754. Dance Conditioning (1). Studio laboratory for concepts in movement theory and body alignment.

Dance Production

DAN 3504. Dance Production (2). Study of technical aspects of production. Permission of instructor required.

DAN 3584r. Dance Theatre Laboratory (1). Assigned problems in connection with current dance theatre production. May be repeated to a maximum of four (4) 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 (6) semester hours.

History and Theory of Dance

DAN 2100. Introduction to History and Appreciation of Dance (3). 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 will be explored through readings, discussion, media presentation, live performances, and movement laboratories. No prior dance experience is required.

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 4183. History of African American Social Dance of the Twentieth Century (3). The class traces the major African American social styles of the twentieth century. These dance styles are examined in a context that facilitates understanding their relationship to the culture(s) and events that produced and influenced them.

DAN 3144, 3145, 3146. History and Philosophy of Dance [three (3) hours each]. 3144—Origins and development of dance; ritual and social components of dance; dance in early cultures. 3145—Evolution of dance as a theatrical art form; ballet history. 3146—Dance in contemporary times.

Pedagogy

DAE 3384. Methods and Materials in Dance Education (3). The study of the principles of learning and how they inform the processes of designing lessons and teaching dance. Includes a 5-week teaching practicum in local schools in addition to coursework on campus.

Directed Individual Study

DAN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

Graduate Courses

DAA 5118r. Contemporary Dance (1–3).

DAA 5218r. Ballet (1–3).

DAA 5618. Choreography (3).

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).

DAA 5950. New York City: Arts and Resources as the Art Event (3).

DAE 940. Supervised Teaching (2). (S/U grade only.)

DAN 5128. Theory of Dance (3).

DAN 5147. History of American Dance 1492–1892 (3).

DAN 5148. History of American Dance 1892–1960 (3).

DAN 5149. History of American Dance 1960–2000 (3).

DAN 5158. Theory of Dance Performance and Directing (3).

DAN 5190. Theory and Practice in Dance Technique (3).

DAN 5191r. Seminar Studies in Dance History and Research (3).

DAN 5192. Dancing in the Movies.

DAN 5193. History of African American Social Dance of the Twentieth Century (3).

DAN 5508. Visual Design for Choreography (3).

DAN 5905r. Directed Individual Study (2–3).

DAN 5910. Supervised Research (2). (S/U grade only.)

DAN 5930r. Special Topics in Dance (1–3).

DAN 5960r. Master's Comprehensive Examination (0).

DAN 5972r. Creative Thesis: Graduate Concert (2–6). (S/U grade only.)

DAN 5973r. Master's Thesis in American Dance Studies (1–6).

DAN 8976. Master's Thesis Defense (0)

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 **Elementary and Early
Childhood Education**

ECOLOGY:
see **Biological Science**

DeVoe L. Moore and Family Center for ECONOMIC POLICY AND GOVERNMENT

COLLEGE OF SOCIAL SCIENCES

Director: David W. Rasmussen; *Professors:* Barrilleaux, Benson, Gwartney, Holcombe, Ihlanfeldt, Rasmussen

The DeVoe L. Moore and Family Center for Economic Policy and Government supports research about the role of government in a market economy, with a special emphasis on state and local regulation. An interdisciplinary unit in the College of Social Sciences, 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 and Political Science and in the Askew School of Public Administration and Policy. In addition to teaching responsibilities, the faculty continues advanced scholarly research in government, economics, and public affairs.

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.

The center offers a certificate in political economy to all students in the University, irrespective of their major, who complete five recommended courses, including a seminar in political economy.

Department of ECONOMICS

COLLEGE OF SOCIAL SCIENCES

Chair: James Cobbe; *Professors:* Benson, Canterbury, Cobbe, Fournier, Gwartney, R. Holcombe, Ihlanfeldt, Isaac, Macesich, MacPherson, Marquis, Norrbin, Rasmussen, Sass, Schlagenhaut, Serow, Sliger; *Associate Professors:* Beaumont, Mason, McCaleb, Prasad, Schmetmann, Zuehlke; *Assistant Professors:* Burke, Lee, Salmon, Young; *Visiting Assistant Professor:* Garriga; *Service Professor:* Laird; *Courtesy Professors:* Elzie, Fabricant, Stratis; *Professors Emeriti:* Downing, Rockwood, Sorensen

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. There are two undergraduate majors—the traditional “economics” major and an “applied economics” major.

The Department of Economics cooperates in the following interdivisional programs: international affairs, interdisciplinary program in social science, Asian studies, Russian and East European studies, African American studies, demography, and economic policy and government.

The department's home page can be found at <http://www.fsu.edu/~economic>.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on “Academic Reference Manual.” Select the 2003-2004 catalog year under the ‘Common Prerequisites Manuals’ subheading.

Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

Economics—Social Sciences

1) ECO X013 and ECO X023 or six (6) semester hours in economic courses (ECO prefix).

Note: The Florida State University **does not** offer an Economics–Business major.

Requirements

Admission

Admission to the undergraduate program is based upon the availability of faculty and space and upon academic performance. Students with fifty-two (52) or more **acceptable** semester hours, both ECO 2013 and 2023 completed with a grade of “C” (2.0) or better, a GPA greater than 2.3, and in good standing with the University will receive priority consideration but are not guaranteed admission to the program.

Students are expected to complete the principles sequence (ECO 2013, 2023) before declaring economics or applied economics as a major. The courses may be taken in either order. The department allows students to take the courses in the same semester, but neither recommends nor encourages it.

Majors

Majors in economics or applied economics must take at least six (6) semester hours of economics each term until the requirements for the major

have been completed. Majors must also complete two of the three required core courses in economic theory by the end of their second term in the major, and the third of the core courses must be completed by the end of the third term as a major. Failure to meet either of these conditions may result in students being dropped from the economics program, in which case such students will have to be accepted in another major before they can register again for classes.

An overall grade of “C” (2.0) average in economics and supporting courses is required of majors. Majors will not receive credit toward the major requirements for courses in which a grade of less than “C–” has been received. A minimum of fifteen (15) semester hours in economics courses must be taken at The Florida State University.

A student majoring in economics or applied economics must complete the minor requirements specified by a supporting academic department. The selection of a supporting department is subject to the approval of the undergraduate adviser. Students in the applied major may complete a minor in business with only an additional six (6) semester hours of College of Business courses.

Undergraduate students who intend to major in economics should take ECO 2013, 2023, and the supporting courses before completing liberal studies. Students not completing these requirements in lower division who wish to major in economics must complete all the requirements no later than the end of the junior year.

Major in Economics

Beyond ECO 2013 and ECO 2023, the economics major requires ECO 4101, 4203, 4421, and an additional fifteen (15) semester hours of upper-division economics electives, including six (6) semester hours in one economics specialty area. Majors will also complete the supporting courses STA 2023, 2122 or 4321 (choose one); and MAC 1105, pre-calculus or calculus (choose one). Calculus is recommended especially for students contemplating graduate study.

Major in Applied Economics

In addition to ECO 2013 and ECO 2023, the major in applied economics requires ECO 3104, 3223, and 4431; twelve (12) additional semester hours

of upper division economics courses; and the supporting courses ACG 2021; ACG 2071 or FIN 3403; MAC 1105, pre-calculus or calculus (choose one) and STA 2023, 2122, 4321 (choose one). Precalculus Algebra (MAC 1140) is recommended. Students in applied economics are encouraged to earn three to six semester hours of credit through the department's internship program, which requires simultaneous registration in ECO 4944r and ECO 4922r; arrangements and approval must be obtained before the semester in which they are to be taken.

Degrees/Certificates

Majors in economics may be awarded either the bachelor of science or the bachelor of arts degree upon completion of all University requirements for those degrees.

An economics department certification of subject area concentration will be given upon request to economics majors.

Honors in the Major

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 Program and Honor Societies" chapter of this *General Bulletin*.

Minor in Economics

A minor requires fifteen (15) semester hours in departmental courses, including ECO 2013 and 2023, with a grade of "C" or better and at least one course selected from ECO 3104, 3223, 4101, 4203, 4421, or 4431. Students will not receive credit towards the minor for courses in which a grade less than "C-" has been received.

Economics minors must have at least a "C" (2.0) grade point average in their economics course work. ECO 2000 will not count toward the minor. No more than six (6) 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

Undergraduate Courses

ECO 2000. Introduction to Economics (3). 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 or the economics minor.

ECO 2013. Principles of Macroeconomics (3). Aggregate economics and national income determination, money and monetary theory, present macroeconomic conditions, and aggregate policy alternatives; theory of international trade and the balance of payments; economic growth and development.

ECO 2023. Principles of Microeconomics (3). The course covers consumption, production, and resource allocations considered from a private and social point of view; microeconomic problems and policy alternatives; economics of inequality, poverty; and comparative economic systems.

ECO 3004. Debating Economic Issues (3). Prerequisites: ECO 2013, 2023. Economic analysis applied 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 3104. Applied Microeconomic Analysis (3). Prerequisites: ECO 2023; STA 2023, 2122 or 4321. 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 3223. Financial Markets, the Banking System, and Monetary Policy (3). Prerequisites: ECO 2013, 2023. 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. 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 3622. Growth of the American Economy (3). Prerequisites: ECO 2013, 2023. 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, 2023. This course code is used for special topics of current interest or to benefit from the specialties of visiting faculty. May be repeated to a maximum of six (6) semester hours. May be repeated within the same semester.

ECO 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

ECO 4101. Intermediate Microeconomic Theory (3). Prerequisites: ECO 2013, 2023. Supply, demand, cost of production, theory of the firm, factor price determination, and other microeconomic resource allocation questions.

ECO 4203. Intermediate Macroeconomic Theory (3). Prerequisite: ECO 2013, 2023. The basic model of income determination is built emphasizing the roles of real and monetary sectors of the economy. Results of empirical work are surveyed.

ECO 4224. Issues in Money and Banking (3). Prerequisites: ECO 2013, 2023, 3223. The role of monetary policy in various macroeconomic theories is emphasized. Focus on controversy over the effects monetary policy has on employment, inflation, and interest rates.

ECO 4400. Games and Decisions (3). Prerequisite: ECO 2023. A non-technical introduction to strategic decision-making. Focuses 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. Introduction to Mathematical Economics (3). Prerequisites: ECO 2013, 2023, college calculus. Uses mathematical techniques such as probability, matrix algebra, and calculus to better understand fundamental principles of economics. Applies these techniques to policy analysis.

ECO 4421. Introduction to Econometrics (3). Prerequisites: ECO 2013, 2023; STA 2023, 2122 or 4321. 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 4431. Introduction to Economic Forecasting (3). Prerequisites: ECO 2013, 2023; STA 2023, 2122 or 4321. Provides a hands-on survey of forecasting methods used in business and economics. Students work extensively with computer-based statistical software to solve actual cases encountered in the business world.

ECO 4455. Experimental Economics (3). Prerequisites: ECO 2013, 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. 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 permission of instructor. Economic models are used 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. State and local revenues, expenditures, and borrowing; intergovernmental relationships.

ECO 4704. International Trade (3). Prerequisites: ECO 2013, 2023; ECO 4101 recommended. Theory of international trade, the gains from trade, tariffs and other trade restrictions, cartels.

ECO 4713. International Finance (3). Prerequisites: ECO 2013, 2023; ECO 3223 or 4203 recommended. 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 (6) semester hours.

ECO 4922r. Professional Development in Economics (1-3). Prerequisite: permission of instructor. Corequisite: ECO 4944r. Covers issues that economics students encounter in the workplace: ethics, presentation skills, data gathering and analysis, as well as problems encountered in students' field study course work are discussed.

ECO 4933r. Senior Tutorial in Economics (1-3). (S/U grade only.) Prerequisites: Senior economics major or minor; or instructor's permission. This course will cover selected topics in economics. Maximum enrollment of five (5) students in each tutorial. Repeatable one time to a maximum of six (6) semester hours.

ECO 4934r. Honors Work (1-6). May be repeated to a maximum of nine (9) semester hours.

ECO 4944r. Field Study in Economics (1-4). Prerequisite: Permission of instructor required. Corequisite: ECO 4922r. Students receive credit toward the economics major for applied and practical experience working in a variety of organizations such as state agencies, banks, and finance departments. May be repeated to a maximum of four (4) semester hours.

ECP 3113. Economics of Population (3). Prerequisites: ECO 2013, 2023. 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, 2023. 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's approval. Theoretical and empirical examination of wage determination, income maintenance programs, labor force, employment, unemployment, functioning of labor markets, and manpower programs.

ECP 3213. Economics of Industrial Relations (3). Prerequisites: ECO 2013, 2023. Industrial relations in the public and private sectors examined from the perspective of history, theory, and institutions.

ECP 3302. Economics of Natural Resources, Energy, and the Environment (3). Prerequisite: any 2000-level ECO class. 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 3322. Economics of Living Marine Resources (3). The economic role of commercial and recreational fishing industries in the U.S. and world, fishery management schemes, resources depletion and environmental deterioration, issues on current and potential food from the sea. An interdisciplinary course with no previous economics courses required.

ECP 3403. Business Organization and Market Structure (3). Prerequisite: ECO 2023. 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 2000 or 2023. The 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 3530. Economics of Health (3). Prerequisites: ECO 2013, 2023. The course provides an overall view of the U.S. health care system, focusing on the following topics: demand for medical care, health insurance, hospitals, physician services, regulation versus competition for cost containment, alternative delivery care systems, financing uncompensated care, Medicare prospective payment system, long-term care, and economic issues concerning health-related behavior (i.e., alcohol, tobacco).

ECP 3703. Business Economics (3). Prerequisites: ECO 2013, 2023. Economic decision making by the firm in relation to the industry and to the economic and regulatory environment in which it operates.

ECP 4003. Public Policy and the Quality of Life (3). Prerequisites: ECO 2013, 2023. This course examines the differences between market allocation of resources and government planning to allocate resources, and illustrates how the market mechanism can be used to improve the quality of life in areas where government allocation is often advocated. These include environmental protection, land use planning, the regulation of product quality, health care, education policy, and more.

ECP 4118. Introduction to Economic Demography (3). Prerequisites: ECO 2013, 2023. This course focuses on the acquisition of demographic and related socioeconomic data and provides an introduction to the analytical tools and skills necessary to understand and interpret the data.

ECP 4160. Economics of Aging (3). Prerequisites: ECO 2013, 2023. This course considers the factors which cause populations to become older and systematically analyzes the economic consequences of this aging. Topics considered include social security and health care financing.

ECP 4413. Government Regulation of Business (3). Prerequisite: ECO 2023. 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). Prerequisites: ECO 2013, 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 4613. Urban Economics (3). Prerequisite: ECO 2023. 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 4623. Regional Economics (3). Prerequisites: ECO 2013, 2023. The economics of subareas of nations with special emphasis on regional economic developments. Includes the theory of the location of industry.

ECS 3003. Comparative Economic Systems (3). Prerequisites: ECO 2013, 2023. Theoretical and practical aspects of the principal forms of economic organization. Emphasis on the varieties of market-based systems, and economies in transition from centrally-planned toward market economies.

ECS 4013. Economics of Development (3). Prerequisites: ECO 2013, 2023. 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 4333. Transition of Soviet and Eastern European Economies (3). Prerequisites: ECO 2013, 2023. Describes and analyzes the formerly centrally planned soviet economy and its transformation. Case studies include Russia, members of the Commonwealth of Independent States and Eastern European countries. Analyzes the successes and failures of the transition process, particularly privatization and marketization.

Graduate Courses

ECO 5005. Economic Principles for International Affairs (3).

ECO 5111. Intermediate Microeconomic Theory (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 5204. Macroeconomic Theory I (3).

ECO 5205. Money and National Income Determination (3).

ECO 5206. Macroeconomic Theory, Practice, and Policy (3).

ECO 5207. Macroeconomic Theory II (3).

ECO 5208. Global Macroeconomics (3).

ECO 5226. Issues in Money and Banking (3).

ECO 5281. Financial Economics I (3).

ECO 5282. Financial Economics II (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. Theory of Statistics (3).

ECO 5420. Basic Applied Econometrics (3).

ECO 5423. Econometric Theory (3).

ECO 5424. Simultaneous Equation Models (3).

ECO 5425. Time Series Analysis (3).

ECO 5427. Limited Dependent Variable Models (3).

ECO 5434. Economic Forecasting (3).

ECO 5505. Public Economics (3).

ECO 5533. Public Choice (3).

ECO 5606. Urban and Regional Economics (3).

ECO 5705. International Trade (3).

ECO 5706. Seminar in International Trade Theory and Policy (3).

ECO 5715. International Finance (3).

ECO 5716. Seminar in the Theory and Policy of International Finance (3).

ECO 5906r. Directed Individual Study (3). (S/U grade only.)

ECO 5907r. Directed Individual Study (3).

ECO 5914. Supervised Research (1–5). (S/U grade only.)

ECO 5932r. Graduate Tutorial in Economics (1–3).

ECO 5935r. Seminar in Political Economy (1–3).

ECO 5936r. Special Topics (1–3).

ECO 5940r. Supervised Teaching (1–5). (S/U grade only.)

ECO 5972. Extended Master's Paper (3). (S/U grade only.)

ECO 6209. Topics in Macroeconomics (3).

ECO 6936. Topics in Macroeconomics (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 5116. Applied Economic Demography (3).

ECP 5117. Mathematical Demography (3).

ECP 5205. Labor Markets (3).

ECP 5238. Labor Compensation, Contracts, and Collective Bargaining (3).

ECP 5312. Natural Resource Economics II (3).

ECP 5405. Industrial Organization (3).

ECP 5415. Social Control of Business (3).

ECP 5536. Seminar in Health Economics (3).

ECP 5705. Economic Concepts for Business Decisions (3).

ECS 5005. Seminar in Comparative Economics Systems (3).

ECS 5015. Economic Development: Theory and Problems (3).

ECS 5028. Economies in Transition (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

**EDUCATIONAL
ADMINISTRATION/
LEADERSHIP:
see Educational Leadership
and Policy Studies**

Department of EDUCATIONAL LEADERSHIP AND POLICY STUDIES

COLLEGE OF EDUCATION

Chair: Carolyn Herrington; **Educational Administration/Leadership**—*Professors:* Beckham, Herrington, Irvin, Kunkel, Snyder, Thomas, Wetherell; *Associate Professors:* Biance, Funk; *Assistant:* Williams; *Professors Emeriti:* Bolden, Gant, Hale, Kannwischer, Luebkemann, Rasmussen, Stakenas; **Higher Education**—*Professors:* Beckham, Lick; *Associate Professors:* Bower, Dalton, Jones, Schwartz; *Assistant Professor:* Gaston; *Professors Emeriti:* Bender, Kropp, Mann, Waggaman; **Foundations of Education**—*Professors:* Milton, Papagiannis, Wallat; *Associate Professors:* MacDonald, Shargel; *Assistant Professors:* Cohen-Vogel, Harris, Iatarola, Milligan, Monkman; *Professors Emeriti:* Grant, Schroeder; **Adult Education**—*Associate Professor:* Easton; *Professor Emeritus:* Jahns

The Department of Educational Leadership and Policy Studies provides preparation for a wide variety of professional careers in educational administration, higher education, foundations and policy studies. The master's, specialist in education, and doctoral degrees are offered. Although the department does not offer any undergraduate degree programs, several courses are offered at this level for persons engaged in programs of professional education. The department offers a non-degree seeking modified program for professionals who wish to be eligible for Educational Leadership level 1 certification in the State of Florida. For information on graduate programs, consult the *Graduate Bulletin*.

In addition, the department offers two certificates at the graduate level, one in Educational Policy and the other in Human Resource Development available to special students as well as degree seeking students.

The following are offered by the Department of Educational Leadership and Policy Studies:

- Adult education*
- Comprehensive vocational education*
- Educational leadership/administration*
- Foundations of education*
 - History and philosophy of education*
 - International/intercultural development education*
 - Social science and education*
- Higher education*
 - Higher education*
 - Institutional research*
- Certificate in college teaching*
- Certificate in educational policy*
- Certificate in human resource development*

* graduate only

State Certification Courses

The following social foundations of education courses offered in the educational foundations and policy studies department will meet the Florida Department of Education professional certification requirements: EDA 4060, EDF 4604, 5160, 5517, 5543, 5548, 5551, 5612, 5630, 5710r.

Definition of Prefixes

ADE	—	Adult Education
CGS	—	Computer General Studies
EDA	—	Education: Administration
EDF	—	Education: Foundations
EDG	—	Education: General
EDH	—	Education: Higher
EDM	—	Education: Middle School
EDS	—	Education: Supervision
EME	—	Education: Technology and Media
ESE	—	Education: Secondary
EVT	—	Education: Vocational/Technical
SDS	—	Student Development Services

Undergraduate Courses

ADE 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

ADE 4930r. Special Topics in Adult and Community Education (3). Introduces varying topics related to the nature and methods of adult and community education. May be repeated for a maximum of twelve (12) semester hours.

EDA 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

EDA 4060. Organization and Control of Education (3). Relationships among local school districts, intermediate units, state departments of education, and the federal government.

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 2073. Diversity in and out of School: Multicultural Policies and Practices (3). The concept of multiculturalism is central to understanding the development of educational policies and practices in the twentieth century. This course provides a broad survey of the ways in which this concept helps to describe and explain current programs both in and out of school and in the university settings. Meets university multicultural requirements.

EDF 4604. Schooling in American Society (3). The study of the organization, policies, and practice of American public education and its mutual interactions with other aspects of society.

EDF 4906r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of twelve (12) semester hours.

EDH 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

EVT 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

Graduate Courses

ADE	5070.	Comparative and International Adult Education (3).
ADE	5075.	University Continuing Education (3).
ADE	5080.	Foundations of Adult and Continuing Education (3).
ADE	5083.	Human Resource Development (3).

ADE	5186.	Program Development in Adult Education (3).
ADE	5189.	Staff Training and Development (3).
ADE	5193.	Education and Training in Gerontology (3).
ADE	5280.	Problems in the Organization and Administration of Adult Education Agencies (3).
ADE	5380.	Processes of Community and Adult Education (3).
ADE	5385.	Adult Learning (3).
ADE	5675.	Issues in Adult and Continuing Education (3).
ADE	5773.	Strategies for Participatory Research Planning and Evaluation (3).
ADE	5906r.	Directed Individual Study (1–3). (S/U grade only.)
ADE	5915r.	Supervised Research (1–4). (S/U grade only.)
ADE	5932r.	Special Topics in Adult Education (1–3).
ADE	5942r.	Internship in Continuing Education (2–4). (S/U grade only.)
ADE	5944r.	Supervised Teaching (1–4). (S/U grade only.)
ADE	6676.	Human Resource Development Policy Seminar (3).
ADE	6772r.	Research Seminar in Adult Education (1). (S/U grade only.)
ADE	6920r.	Adult Education Colloquium (1). (S/U grade only.)
ADE	6931.	Research Seminar in Adult Education (2). (S/U grade only.)
CGS	5310.	Information Management Technology in Education (3).
EDA	5051.	Introduction to Leadership Development (3).
EDA	5061.	Educational Administration (3).
EDA	5109.	Educational Management Development (3).
EDA	5192.	Educational Leadership (3).
EDA	5218.	Application of Leadership Theory (3).
EDA	5222.	Personnel Administration in Education (3).
EDA	5227.	The Role of the Woman Administrator in Education (3).
EDA	5232.	Legal Aspects of Public School Administration (3).
EDA	5242.	School Finance (3).
EDA	5288.	The Politics of Education (3).
EDA	5423.	Decision-Oriented Educational Research (3).
EDA	5506.	Organization and Administration of Higher Education (3).
EDA	5569.	State Education Policy (3).
EDA	5906r.	Directed Individual Study (1–3). (S/U grade only.)
EDA	5910r.	Supervised Research (1–4). (S/U grade only.)
EDA	5931r.	Special Topics in Educational Administration (1–3).
EDA	5941r.	Supervised Teaching (1–4). (S/U grade only.)
EDA	6101.	Organizational Theory (3).
EDA	6207.	Leadership for School Renewal (3).

EDA 6930r.	Departmental Seminar and Research Projects (1–3). (S/U grade only.)	EDF 5943r.	Supervised Teaching (1–4). (S/U grade only.)	EDH 5943r.	Supervised Teaching (1–4). (S/U grade only.)
EDA 6940r.	Internship in Educational Administration (3). (S/U grade only.)	EDF 6475.	Qualitative Methods in Educational Research (3).	EDH 5944r.	Internship (1–8). (S/U grade only.)
EDF 6160.	The School as a Social System: The Social Psychology of Education (3).	EDF 6558.	Seminar on John Dewey's Educational Philosophy (3).	EDH 5946.	Internship in College and Community College Teaching (3).
EDF 6449.	Survey Research Methods (3).	EDF 6629r.	Advanced Seminar: Selected Topics in Education and Economic Development (3).	EDH 6935r.	Seminar: Literature, Research, and Professional Writing in Higher Education (3). (S/U grade only.)
EDF 5488.	Computer Analysis of Educational Data (2).	EDF 6648.	Policy Analysis in Education (3).	EDM 5045.	Schools for Young Adolescents (3).
EDF 5517.	History of Education in the United States (3).	EDF 6653.	Planning Education for Socioeconomic Change (3).	EDM 5405.	Issues, Trends, and Practices in Middle Level Education (3).
EDF 5519.	History of Higher Education (3).	EDF 6945r.	Internship in Educational Policy (1–9). (S/U grade only.)	EDS 5941r.	Administration and Supervision of Clinical Education (1–3). (S/U grade only.)
EDF 5543.	Introduction to Philosophy of Education (3).	EDG 5250.	Basic Concepts in Curriculum Planning and Organization (3).	EME 5941.	Designs for In-Service Personnel Development (3).
EDF 5548.	Philosophy of Teaching and Learning (3).	EDG 5253.	Designing, Implementing, and Evaluating Curriculum (3).	ESE 5015.	The American High School (3).
EDF 5551.	Social Philosophies and Education (3).	EDG 5945r.	Advanced Associate Teaching (3). (S/U grade only.)	ESE 5035.	Trends and Innovations in High School Education (3).
EDF 5612.	Education and Culture (3).	EDH 5041.	International Interventions (3).	EVT 5066.	Philosophy and Principles of Comprehensive Vocational Education (3).
EDF 5625.	Education and Economic Development (3).	EDH 5045.	Student Development Theories for College Student Personnel Work (3).	EVT 5264.	Organization, Administration, and Management of Vocational Education Programs (3).
EDF 5626.	Economic Evaluation of Education Programs (3).	EDH 5050.	Seminar in Graduate Inquiry Resources (2).	EVT 5265.	Supervision and Development of Vocational Education Staff (3).
EDF 5630.	Sociology of Education (3).	EDH 5051.	Higher Education in America: Basic Understandings (3).	EVT 5267.	Planning for Vocational Education (3).
EDF 5631.	Education and Equality (3).	EDH 5054.	The American Community College: History and Development (3).	EVT 5664.	Community Relations in Education (3).
EDF 5641.	Introduction to Policy Studies in Education (3).	EDH 5068.	Outcomes of Undergraduate Education (3).	EVT 5760.	Designing Research in Educational Leadership (3).
EDF 5651.	Case Studies in Educational Policy (3).	EDH 5081.	Leading Change in Higher Education (3).	EVT 5905r.	Directed Individual Study (1–3). (S/U grade only.)
EDF 5652.	Policy Development in Education (3).	EDH 5205.	Curriculum in Higher Education (3).	EVT 5915r.	Supervised Research (1–4). (S/U grade only.)
EDF 5661.	The Language of Education Policy (3).	EDH 5305.	College Teaching: Instruction in Higher Education (3).	EVT 5930r.	Seminar in Vocational Education (1–3).
EDF 5706.	Gender and Education in Comparative Perspective (3).	EDH 5306.	College Teaching: Teaching in the Subject Field (3).	EVT 5942r.	Supervised Teaching (1–4). (S/U grade only.)
EDF 5710r.	Contemporary Readings in American Education (3).	EDH 5405.	Legal Aspects of Higher Education (3).	EVT 5947r.	Internship (1–8). (S/U grade only.)
EDF 5763.	The Educational Consultant: Fieldwork Techniques (3).	EDH 5406.	Ethics and Inquiry (1).	EVT 6790.	Evaluating Vocational Education (3).
EDF 5850.	International Development Education (3).	EDH 5504.	College and University Institutional Advancement (3).	EVT 6930r.	Seminar in Vocational Research (1–3). (S/U grade only.)
EDF 5853.	Comparative Education Policy in Developing Countries (3).	EDH 5505.	Finance in Higher Education (3).	SDS 5040.	Student Personnel Work in Higher Education (3).
EDF 5890.	Sociology of Nontraditional Approaches and Innovation in Education and Development (3).	EDH 5630.	Program Financial Management in Higher Education (3).	SDS 5624.	The American College Student (3).
EDF 5895r.	Comparative Studies in Education (2–5).	EDH 5631.	Academic Leadership and Middle Management in Higher Education (3).	SDS 5804.	Practicum in Student Personnel Work (3).
EDF 5896.	Education and Political Development (3).	EDH 5906r.	Directed Individual Study (1–3). (S/U grade only.)		
EDF 5897.	Sociology of Education and Development (3).	EDH 5915r.	Supervised Research (1–4). (S/U grade only.)		
EDF 5907r.	Directed Individual Study (1–3). (S/U grade only.)	EDH 5931r.	Special Topics in Higher Education (1–3).		
EDF 5911r.	Supervised Research (1–4). (S/U grade only.)	EDH 5941r.	Field Laboratory Internship (1–8).		
EDF 5935r.	Special Topics in Foundations of Education (1–3).	EDH 5942r.	Internship (1–8). (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*.

Department of EDUCATIONAL PSYCHOLOGY AND LEARNING SYSTEMS

COLLEGE OF EDUCATION

Chair: Marcy Driscoll; *Professors:* Branson, Brewer, Driscoll, Kaufman, Keller, Morgan, Oosterhof, Pargman, Peterson, Reiser, Rollin, Sampson, Tenenbaum, Wager; *Associate Professors:* Kelly, Losh, Prevatt, Tate; *Assistant Professors:* Baylor, Darabi, Kamata; *Visiting Assistant Professors:* Jeong, Olina, Proctor; *Courtesy Professor:* Groomes; *Professors Emeriti:* Beard, Burck, Burkman, Dick, Fletcher, Foster, Gagné, Hills, Johnson, King, Lathrop, Mancha, Quinly

The Department of Educational Psychology and Learning Systems offers degrees only at the masters, specialist, and doctoral levels. However, the department does offer several undergraduate courses that are part of the teacher education curriculum. For more information, refer to the *Graduate Bulletin*.

The following are offered by the Department of Educational Psychology and Learning Systems:

Counseling and human systems*

School psychology*

Combined program in counseling psychology and school psychology*

Educational psychology*

Learning and cognition*

Sports psychology*

Measurement and statistics*

Research and evaluation methods*

Program evaluation*

Instructional systems*

Open and distance learning*

Certificate in program evaluation*

Certificate in educational technology*

* graduate only

Definition of Prefixes

EDF	—	Education: Foundations
EDG	—	Education: General
EDP	—	Educational Psychology
EME	—	Education: Technology and Media
MHS	—	Mental Health Services
PCO	—	Psychology for Counseling
PET	—	Physical Education Theory
PSB	—	Psychobiology and Neuroscience
SDS	—	Student Development Services
SPS	—	School Psychology
SYP	—	Social Processes

Undergraduate Courses

EDF 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

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 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 4440. Measurement and Evaluation in the Classroom (3). Prepares teachers for activities in testing, grading, test construction, and the interpretation and use of test scores.

EDF 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

EDG 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

EME 2040. Introduction to Educational Technology (3). An introduction to the use of educational technology in teaching and learning. Students will learn to use personal computers and other technology for communication, presentations, and resource acquisition.

EME 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

EME 4050. Educational Technology Theory and Practice in Instruction (3). Course focuses on the current theories and practices of using technology in teaching and learning. Students participate in a computer-supported collaborative learning environment and integrate technology into their practices.

EME 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of twelve (12) semester hours.

PET 4214. Sport Psychology (3). Course explores selected psychological theories and applications relevant to sport and exercise behavior.

SDS 3340r. Introduction to Career Development (1–3). 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 (3) semester hours.

SDS 4481. Communication and Human Relations (3). Relevant dimensions of the helping relationship and the development of effective communications skills.

Graduate Courses

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	5406.	Multivariate Analysis Applications (3).
EDF	5409.	Causal Modeling (3).
EDF	5410.	Nonparametric Analysis Applications (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	5443.	Measurement and Evaluation in the Classroom (3).
EDF	5445.	Assessment of Learning Outcomes (3).
EDF	5448.	Scale and Instrument Development (3).
EDF	5461.	Introduction to Program Evaluation (3).

EDF	5462.	Evaluation of New Educational Programs and Practices (3).
EDF	5464.	Qualitative Methods for Program Evaluation (3).
EDF	5481.	Methods of Educational Research (3).
EDF	5906r.	Directed Individual Study (1–3). (S/U grade only.)
EDF	5910r.	Supervised Research (1–4). (S/U grade only.)
EDF	5940r.	Supervised Teaching (1–4). (S/U grade only.)
EDF	5941.	Internship in Institutional Research (1–8). (S/U grade only.)
EDF	5942r.	Field Laboratory Internship (1–8). (S/U grade only.)
EDF	6479.	Qualitative Data Analysis (3).
EDF	6930r.	Research and Evaluation Seminar (1–2). (S/U grade only.)
EDF	6933.	Advanced Measurement Seminar: Decision Processes (2).
EDF	6937r.	Seminar in Advanced Research Problems (1–3).
EDG	5932r.	Seminar in Instructional Design (1). (S/U grade only.)
EDG	6287.	Needs Assessment for Performance and System Planning (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).
EDG	6925.	Instructional Materials Development (4).
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).
EME	5054.	Educational Technology: Theory and Practice in Instruction (3).
EME	5403.	Collaborative Learning Online (3).
EME	5405.	Media, Text, and Technology (3).
EME	5408.	Application of Technology in Teaching (3).
EME	5456.	Researching the Literature in Open and Distance Learning (3).
EME	5457.	Introduction to Distance Learning (3).
EME	5601.	Introduction to Instructional Systems (3).
EME	5603.	Introduction to Systematic Instructional Design (3).
EME	5604.	Designing Instructor-Led Courses (3).
EME	5608.	Trends and Issues in Instructional Design (3).
EME	5906r.	Directed Individual Study (1–3). (S/U grade only.)
EME	5975.	Portfolio Review (0).
EME	6313.	Analysis and Application of Web-Based Instructional Delivery Systems (3).
EME	6326.	Development of Print Courseware (3).

EME 6415.	Development of Computer Courseware (3).	MHS 5905r.	Directed Individual Study (1–3).	PET 5219.	Applied Sport and Exercise Psychology (3).
EME 6507.	Development of Multimedia Instruction (3).	MHS 5915r.	Supervised Research (1–4). (S/U grade only.)	PET 5255.	Social Bases of Physical Activity (3).
EME 6613.	Design and Development of Electronic Performance Support Systems (3).	MHS 6220.	Individual Appraisal in Counseling (3).	PET 5390.	Measurement in Sport and Exercise Psychology (3).
EME 6616.	Case Studies in Instructional Systems (2).	MHS 6300.	Theories of Vocational Behavior (3).	PET 6217.	Stress and Motor Performance (3).
EME 6631.	Managing Instructional Development (3).	MHS 6401.	Individual Counseling Theories (3).	PET 6297.	Seminar in Sport Psychology (3).
EME 6635r.	Seminar in Advanced Instructional Systems Problems (1–3).	MHS 6410.	Behavior Management: Principles and Applications (3).	PSB 5066.	Biological Bases of Learning and Behavior (3).
EME 6636.	A System Approach to the Management of Change (3).	MHS 6600.	Consultation and Organizational Development (3).	SDS 5820r.	Internship (6–12). (S/U grade only.)
EME 6691.	Performance Systems Analysis (3).	MHS 6610.	Supervision (3).	SPS 5055.	Foundations of School Psychology (3).
MHS 5005.	Foundations of Counseling and Rehabilitation (3).	MHS 6630.	Program Development and Evaluation in Counseling (3).	SPS 5105.	Social-Emotional Disorders of Children and Adolescents: Characteristics and Assessment (3).
MHS 5310.	Counseling Technology and Information Systems (3).	MHS 6715.	Design and Critical Review of Research in Counseling (3).	SPS 5191.	Assessment of Intelligence (4).
MHS 5340.	Foundations of Career Development (3).	MHS 6805.	Advanced Group or Individual Counseling Practicum (4).	SPS 5192.	Psychoeducational Assessment and Intervention (4).
MHS 5341.	Career Development Program Design and Evaluation (3).	MHS 6820r.	Counseling Internship (3–6). (S/U grade only.)	SPS 5193.	Laboratory in the Assessment of Social-Emotional Problems (2). (S/U grade only.)
MHS 5400.	Introduction to Counseling Theories and Techniques (4).	MHS 6938r.	Special Topics in Counseling Psychology (3).	SPS 5615.	Counseling Children and Adolescents (3).
MHS 5419.	Systems Approach to Counseling (3).	MHS 6970r.	Thesis (3–6). (S/U grade only.)	SPS 5945r.	Practicum in School Psychology (3–6). (S/U grade only.)
MHS 5511.	Group Counseling: Theory and Practice (3).	MHS 6973r.	Specialist in Education Thesis (3–6). (S/U grade only.)	SPS 6948r.	Internship in School Psychology (3–6). (S/U grade only.)
MHS 5710.	Research in Human Services (3).	PCO 5095.	Computer Applications in Counseling Psychology and other Human Services (3).	SYP 5105.	Theories of Social Psychology (3).
MHS 5800r.	Practicum: Counseling Concepts and Case Management (4).	PCO 6855.	Historical, Ethical, and Legal Aspects of Counseling Psychology (3).		
MHS 5801.	Practicum in Counseling and Rehabilitation (4).	PCO 6930.	Integrative Seminar (3).		
MHS 5860r.	Supervised Teaching (1–4). (S/U grade only.)	PET 206C.	Youth in Sport (3).		
		PET 5215.	Cognitive Processes in Sport Psychology (3).		
		PET 5216.	Sports Psychology (3).		

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of ELECTRICAL AND COMPUTER ENGINEERING

FAMU—FSU COLLEGE OF ENGINEERING

Chair: Reginald Perry; *Professors:* R. Arora, Perry, Simons, Thagard; *Associate Professors:* K. Arora, Cockburn, Foo, Gross, Kwan, Roberts, Tung, Zheng; *Assistant Professors:* Baldwin, Harvey, Weatherspoon; *Visiting Professor:* McLaren; *Visiting Associate Professor:* Li; *Visiting Assistant Professors:* Kim, A. Meyer-Baese, U. Meyer-Baese; *Assistants in Electrical Engineering:* Brooks, Imen

The mission of the Department of Electrical and Computer Engineering is to provide an innovative academic undergraduate program of excellence to its majors; to produce graduates whose academic achievements match or exceed those of recognized state supported engineering colleges; to produce a greater number of graduates from groups traditionally underrepresented (especially, for historical reasons, African Ameri-

can and female graduates) in electrical engineering; and to achieve national and international recognition through the excellence of its faculty and student research and scholarly pursuits, as well as their professional and service endeavors.

Bachelor of Science in Electrical Engineering— Program Educational Objectives

The bachelor of science in electrical engineering (BSEE) degree program prepares its graduates for a successful career in the rapidly evolving and intellectually challenging field of electrical engineering. The department requires its graduates to develop a strong understanding of the relevant mathematics, computer programming and natural science concepts needed by practicing electrical engineers.

Graduates must demonstrate an ability to apply this knowledge in several fundamental areas of electrical engineering, including analog circuit design, digital logic design, electromagnetics, signal and linear system analysis, communications,

and microprocessor based design. They also must demonstrate sufficient knowledge and the technical skills needed to complete a major design experience and to function as a member of a multidisciplinary team.

With the addition of electrical engineering technical electives, graduates have an opportunity to prepare for advanced graduate-level training or a professional career in a variety of electrical engineering application areas including digital systems, communication systems, digital signal processing, control systems, microelectronics, power systems, or electromagnetics.

In addition, in the several years after graduation graduates are expected to accomplish the following:

1. Participate in either the research, development or application of engineering solutions that have a positive impact on society;
2. Make contributions to workforce diversity;
3. Show a commitment to life-long learning and continuous self-improvement; and,
4. Become proficient in the oral and written communication of their work and ideas.

Bachelor of Science in Computer Engineering— Program Educational Objectives

The bachelor of science in computer engineering (BSCpE) degree program prepares its graduates for a successful career in the interdisciplinary field of computer engineering. The program is built firmly on the foundation of the department's well established BS in electrical engineering (BSEE) degree program. Consequently, graduates from the BSCpE degree program complete all of the required core coursework of BSEE majors, additional core computer engineering coursework, and a set of specialized courses offered through the Department of Computer Science at The Florida State University. BSCpE graduates have an opportunity to prepare for advanced graduate-level training or a professional career in or built upon a variety of computer engineering application areas including digital systems, digital signal processing, computer networks and VLSI design.

Graduates from the BSCpE degree program must develop a strong understanding of relevant mathematics, programming and physical science concepts needed by practicing computer engineers. They also must demonstrate an ability to apply this knowledge in several fundamental areas of electrical engineering (e.g., analog circuit design, electromagnetics, signal and linear system analysis, communications); computer engineering (e.g., digital logic design, microprocessor-based system design, and computer architecture); and computer science (e.g., object-oriented programming, data structures, computer algorithms and operating systems.) Graduates also must demonstrate successfully sufficient knowledge and the technical skills needed to complete a major design experience and to function as a member of a multi-disciplinary team.

In addition, in the several years after graduation, graduates are expected to accomplish the following:

1. Participate in either the research, development or application of engineering solutions that have a positive impact on society;
2. Make contributions to workforce diversity;
3. Show a commitment to life-long learning and continuous self-improvement; and,
4. Become proficient in the oral and written communication of their work and ideas.

Program Review

The departmental faculty has established a process to periodically review and revise its two program 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 curriculum remains contemporary and motivates 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 computer engineering and the following five electrical engineering application areas:

1. **Microelectronics** deals with all aspects of (primarily 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.

The department maintains well-equipped, dedicated instructional laboratory facilities for each required laboratory course and research laboratories in each major area of interest. The department has access to a large number of personal computers, advanced workstations, and specialized CAD systems. Open-access facilities are also available for design projects and preparation of technical documentation.

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 Program and Honor Societies" chapter of this *General Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. ENC 1101;
2. ENC 1102;
3. MAC 2311*;
4. MAC 2312*;
5. MAC 2313*;
6. MAP 2302;
7. CHM 1045/1045L*;
8. PHY 2048/2048L;
9. PHY 2049/2049L;
10. Six (6) semester hours in humanities;
11. Six (6) semester hours in social science;
12. Three (3) additional semester hours in humanities **or** social science.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Common Required Courses for Bachelor of Science Degrees and Dual Majors

All candidates for bachelor of science degree in electrical engineering (BSEE), bachelor of science degree in computer engineering (BSCpE) and bachelor of science degree in dual majors (BSEE and BSCpE) are required to complete a total of one hundred and three (103) semester hours of common required courses, of which

twenty-four (24) hours are English, social science and humanities courses, forty-five (45) hours are engineering core courses (listed below), and thirty-four (34) hours are required electrical and computer engineering courses (listed below).

Engineering Core Courses (45 semester hours)

CGS	3408	C for Non-Specialists (3)
CHM	1045C	General Chemistry I (4)
EGM	3512	Engineering Mechanics (4)
EGN	1004L	First Year Engineering Laboratory (1)
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	3305	Engineering Mathematics I (3)
MAP	3306	Engineering Mathematics II (3)
PHY	2048C	General Physics A (5)
PHY	2049C	General Physics B (5)

Required Electrical and Computer Engineering Courses (34 semester hours)

EEL	3111	Introductory Circuit Analysis (3)
EEL	3112	Advanced Circuits with Computers (3)
EEL	3112L	Advanced Circuits with Computers Laboratory (1)
EEL	3135	Signal and Linear Systems Analysis (3)
EEL	3300	Electronics (3)
EEL	3300L	Electronics Laboratory (1)
EEL	3472	Electromagnetic Fields I (3)
EEL	3512	Introduction to Communications (3)
EEL	3705	Digital Logic Design (3)
EEL	3705L	Digital Logic Laboratory (1)
EEL	4021	Statistical Topics in Electrical Engineering (3)
EEL	4746	Microprocessor-Based System Design (3)
EEL	4746L	Microprocessor-Based System Design Laboratory (1)
EEL	4914r	Electrical Engineering Design Project (3)

Requirements for a Major in Electrical Engineering

Students majoring in electrical engineering require one hundred twenty-eight (128) semester credit hours to graduate, of which one hundred and three (103) hours are common required courses listed above and twenty-five (25) semester hours are technical elective courses.

Technical Electives for Electrical Engineering Major

- One (1) semester hour must be an electrical engineering (EE) laboratory elective;
- Twenty-one (21) semester hours must be EE technical electives; and
- Three (3) hours may be an EE or a non-EE elective.

The non-EE technical elective must be selected from a list of departmentally approved courses offered by other departments at The Florida State University or Florida A & M University. Courses not on the list may be taken with prior approval of the department.

Requirements for a Major in Computer Engineering

Students majoring in computer engineering require one hundred twenty-seven (127) semester credit hours to graduate, of which one hundred and three (103) hours are common required courses listed above. The other twenty-four (24) semester credit hours include twelve (12) semester hours of computer science courses (listed below), six (6) semester hours of required computer engineering courses: EEL 4712, Introduction to Field Programmable Logic Devices (3), and EEL 4713, Computer Architecture (3), and six (6) semester hours of technical electives.

Required Computer Science Courses (12 semester hours)

COP	3330	Object Oriented Programming (3)
COP	4530	Data Structures, Algorithms and Generic Programming (3)
COP	4610	Operating Systems and Concurrent Programming (3)
MAD	2104	Discrete Mathematics I (3)

For a current list of technical electives for the computer engineering major, contact the department.

Requirements for a Dual Major in Electrical Engineering and Computer Engineering

Students dual-majoring in electrical engineering and computer engineering must take the common required courses (one-hundred three [103] semester hours), required CS courses (twelve [12] semester hours) and required computer engineering courses: EEL 4712 and EEL 4713 (each three [3] semester hours) plus nineteen (19) semester hours of electrical engineering technical electives and special requirements.

Technical Electives and Special Requirements for a Dual Major

- One (1) semester hour must be an electrical engineering (EE) laboratory elective;

- Fifteen (15) semester hours must be EE technical electives; and
- Three (3) semester hours should be a second senior design project (EEL 4914) approved by the department.

ABET Engineering Criteria 2000 (EC-2000)

In keeping with Accreditation Board for Engineering and Technology (ABET) EC-2000 policies, graduates from the Department of Electrical and Computer Engineering must demonstrate the following program outcome objectives:

- An ability to apply knowledge of mathematics, science, and engineering;
- An ability to design and conduct experiments, as well as to analyze and interpret data;
- An ability to design a system, component, or process to meet desired needs;
- An ability to function on multi-disciplinary teams;
- An ability to identify, formulate, and solve engineering problems;
- An understanding of professional and ethical responsibility;
- An ability to communicate effectively;
- The broad education necessary to understand the impact of engineering solutions in a global and societal context;
- A recognition of the need for, and an ability to engage in life-long learning;
- A knowledge of contemporary issues;
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Note: 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 page.

Grade Requirements

In addition to University requirements regarding grades and grade point average (GPA), college policy requires that engineering major students earn a grade in the range of "C" or better in all engineering courses and engineering core courses which apply toward the degree, and requires a GPA of 2.5 on a specified set of the engineering core courses before being allowed to enroll in 3000-level or higher engineering courses. Any student who fails to earn a grade in the range of "C" or better in an electrical engineering course on the third attempt, or who withdraws from the course more than twice, is subject to dismissal from the electrical and computer engineering department.

A student must receive a satisfactory grade according to the above requirements in all prerequisites to a course with an EEL prefix prior to enrolling in the EEL course. Concurrent registration in an EEL course and its prerequisite(s) is not allowed. Failure to abide by this policy can result in the cancellation of enrollment in the class at any time during the semester with no refund of fees. Corequisites of an EEL course must be taken concurrently or prior to enrolling in the EEL course. As a matter of departmental policy to provide equity for FAMU and FSU students, “+/-” grades are not used for any electrical engineering courses.

Definition of Prefix

EEL — Electrical Engineering

Undergraduate Courses

EEL 3003. Introduction to Electrical Engineering (3). Prerequisites: MAC 2312; PHY 2049C. 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.

EEL 3003L. Introduction to Electrical Engineering Laboratory (1). Prerequisites: MAC 2312; PHY 2049C; Corequisite: EEL 3003. Laboratory in support of 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; Corequisite: MAC 2313; PHY 2049C. 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). Prerequisite: EEL 3111; Corequisite: MAP 3305. 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). Prerequisite: EEL 3111; Corequisite: EEL 3112. 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: EEL 3112; MAP 3305. 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. 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 3300. Electronics (3). Prerequisite: EEL 3112. Diode models and circuits; DC biasing of bipolar-junction and field-effect transistors; small- and large-signal transistor models; frequency analysis of single-stage AC amplifiers.

EEL 3300L. Electronics Laboratory (1). Prerequisites: EEL 3112, 3112L; Corequisite: EEL 3300. Laboratory in support of EEL 3300.

EEL 3472. Electromagnetic Fields I (3). Prerequisites: EEL 3111; MAP 3306; PHY 2049C. The 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; MAP 3306. 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 3512. Introduction to Communications (3). Prerequisite: EEL 3112; MAP 3306. Signal analysis, Fourier series / Fourier transform, sampling theorem, distortions in signal transmission, and analog modulation AM, FM, pulse modulation, pulse-code modulation, and pulse shaping.

EEL 3705. Digital Logic Design (3). Prerequisite: CGS 3408. Fundamental topics in digital logic design, algorithms, computer organization, assembly-language programming, and computer engineering technology.

EEL 3705L. Digital Logic Laboratory (1). Prerequisite: CGS 3408. Corequisite: EEL 3705. Laboratory in support of EEL 3705.

EEL 3949r. Cooperative Work Experience (0). (S/U grade only.)

EEL 4021. Statistical Topics in Electrical Engineering (3). Prerequisites: EEL 3112; MAP 3306. Corequisite: EEL 3512. 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. Multiple random variables. Introduction to random processes. Elements of statistics: parameter estimation and hypothesis testing.

EEL 4113. Advanced Linear Networks (3). Prerequisites: EEL 3112, 3135. 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. 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 4220. Electromechanical Dynamics (3). Prerequisites: EEL 3216, 3472. Corequisite: EEL 3473. 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 4301. Electronic Circuits and Systems Design (3). Prerequisites: EEL 3300, 3300L. Multistage amplifier analysis and design including feedback and operational amplifiers, A-to-D and D-to-A converters, waveshaping and waveforming generators including oscillators, voltage regulators, and power circuits. Includes use of computer-aided-design programs.

EEL 4301L. Electronic Circuits and Systems Laboratory (1). Prerequisites: EEL 3300, 3300L. Advanced electronic laboratory.

EEL 4313. Introduction to Digital Integrated Circuit Design (3). Prerequisite: EEL 3300. Semiconductor device physics, digital logic fundamentals, static inverter analysis, static logic gate analysis, dynamic switching analysis, combinational logic design.

EEL 4330. Microelectronics Engineering (3). Prerequisite: EEL 3300, 3300L. Design and fabrication of solid-state devices. Topics include oxidation, diffusion, metallization, photolithography, and device characterization.

EEL 4351. Solid-State Electronic Devices (3). Prerequisites: EEL 3300, 3300L. Solid-state physics as applied to electronic devices. Semiconductor materials, conduction processes in solids, device fabrication, diffusion processes, and negative conduction devices.

EEL 4360. Power Electronics (3). Prerequisites: EEL 3135, 3300. The purpose of this course is 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 4363. Feedback Amplifier Principles (3). Prerequisite: EEL 3300. This course introduces basic concepts of multi-stage audio-frequency amplifiers, including feedback and stability principles and power supply criteria.

EEL 4376C. Introduction to Analog IC Design (3). Prerequisite: EEL 4301. Design and analysis of bipolar and MOS analog integrated circuits. Topics include operational amplifier design, analog multipliers, active loads, current sources, and active filters.

EEL 4377. Mixed Signal ICs (3). Prerequisite: EEL 4313 or 4376C. This course introduces mixed signal processing using analog and digital integrated circuits. Topics include 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.

EEL 4415. Sonar (3). Prerequisites: EEL 3473, 3512. 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. 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: EEL 3300, 3473. 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 4450. Optical Sensors (3). Prerequisites: EEL 3473, 3512. 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. Antenna theory, including Hertzian dipoles, thin linear antennas, aperture antennas, arrays, loop antenna, slots, horns, and waveguides.

EEL 4510. Digital Signal Processing (3). Prerequisite: EEL 3135. 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.

EEL 4514. Principles of Communications Systems (3). Prerequisite: EEL 3512. Introduction to Fourier analysis of noise and signals; information transmission; modulation techniques AM, FM, and pulse; analog multiplexing.

EEL 4515. Digital Communication Systems (3). Prerequisite: EEL 3512. Sampling principle, spectral analysis of digital waveforms and noise, pulse and digital transmission systems, digital multiplexing, error probabilities, and system performance.

EEL 4540. Radar (3).

EEL 4566. Optical Fiber Communications (3). Prerequisites: EEL 3473, 3512. 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 4596. Advanced Topics in Communications (3). Prerequisites: EEL 3512, 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 4595. Wireless Communications and Networking (3). Prerequisites: CGS 3408 or equivalent; EEL 3135, 3512, 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 4635. Digital Control Systems (3). Prerequisite: EEL 4652. Discrete time systems; Z-transform; sampling and reconstruction; system time-response characteristics; stability analysis; digital controller design.

EEL 4652. Analysis and Design of Control Systems (3). Prerequisite: EEL 3135. Continuous system modeling; stability of linear systems; frequency response methods; the root locus method; state-space methods.

EEL 4658. Instrumentation for Measurement and Control (3). Prerequisites: EEL 3112, 4652. Design and application of sensors and transducers commonly used in industrial control and laboratory automation. Concepts and application of statistical process control are introduced.

EEL 4712. Introduction to Field Programmable Logic Devices (3). Prerequisite: EEL 3705, 3705L. Overview of PLD, CPLD and FPGA devices; introduction to hardware description languages (HDLs); combinational, sequential and FSM design using HDLs; introduction to top down design methodologies.

EEL 4713. Computer Architecture (3). Prerequisites: CGS 3408; EEL 4746. Modern computer architectures are presented by studying how the relationships between hardware and software impact performance, machine language definition, processor data path and control designs, interfacing, and advanced topics, such as caching and pipelining.

EEL 4746. Microprocessor-Based System Design (3). Prerequisite: EEL 3705, 3705L. Fundamental topics in basic computer design, structured assembly-language software design, RTL, CPU design, pipeline and superscaling, computer arithmetic, memory and I/O organization and interface, cache, and design tools.

EEL 4746L. Microprocessor-Based System Design Laboratory (1). Prerequisite: EEL 3705, 3705L; Corequisite: EEL 4746. Laboratory software development, hardware projects, and experiments in support of EEL 4746.

EEL 4748. Embedded Microcomputer Design Project (3). Prerequisites: EEL 4746, 4746L. Individual projects selected with consent of instructor. Selected lectures and an open-door Motorola 68000 laboratory.

EEL 4810. Introduction to Neural Networks (3). Prerequisites: EEL 3135, 3300. 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-level standing and “B” average in electrical engineering courses. Normally may be repeated to a maximum of six (6) semester hours. Requires department approval.

EEL 4906r. Honors Work in Electrical Engineering (1–6). Prerequisite: Acceptance in honors program. Independent or directed research in a specialized area beyond the current curriculum in electrical engineering. May be repeated to a maximum of nine (9) semester hours.

EEL 4914r. Electrical Engineering Design Project (3). Prerequisites: senior standing; completion of all required EE courses; permission of instructor. Individual project in electrical engineering involving hardware, software, or theoretical

design, documentation, and presentation of results. Must be taken for a minimum of three (3) and a maximum of six (6) semester hours.

EEL 4930r. Special Topics in Electrical Engineering (1–3). Prerequisite: Instructor consent. Special topics in electrical engineering with emphasis on recent developments. Topics and credit vary; consult the instructor. May be repeated to a maximum of twelve (12) semester hours.

Graduate Courses

EEL 5173. Signal and System Analysis (3).

EEL 5250. Power Systems Analysis (3).

EEL 5270. Power System Transients (3).

EEL 5315. Digital Integrated Circuit Design (3).

EEL 5317. Power Electronics (3).

EEL 5333. Solid State Sensors (3).

EEL 5378. Mixed Signal ICs (3).

EEL 5416. Sonar (3).

EEL 5443. Electromagnetics and Optics (3).

EEL 5454. Optical Sensors (3).

EEL 5465. Antenna Theory (3).

EEL 5486. Advanced Electromagnetic Theory (3).

EEL 5500. Digital Communication Theory (3).

EEL 5542. Random Processes (3).

EEL 5547. Radar (3).

EEL 5563. Optical Fiber Communications (3).

EEL 5590. Advanced Topics in Communication (3).

EEL 5591. Wireless Communications and Networking (3).

EEL 5617. Multivariable Control (3).

EEL 5630. Digital Control Systems (3).

EEL 5667. Robot Kinematics and Dynamics (3).

EEL 5707. ASIC Systems Design I (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).

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 6266. Power Systems Operation and Control (3).

EEL 6353. Semiconductor Device Theory (3).

EEL 6457r. Advanced Topics in Optoelectronic Systems. (3).

EEL 6502. Digital Signal Processing I (3).

EEL 6558r. Advanced Topics in Digital Signal Processing (3).

EEL 6619. Robust Control (3).

EEL 6708. ASIC Systems Design II (3).

EEL 6799r. Advanced Topics in Computer Engineering (3).

EEL 6905r. Directed Individual Study (1–3).

EEL 6930r. Special Graduate Topics in Electrical Engineering (3).

EEL 6932r. Electrical and Computer Engineering Seminar (0).

EEL 6971r. Master’s Thesis (1-6). (S/U grade only.)

EEL 6980r. Dissertation (1-12). (S/U grade only.)

EEL 8964. Preliminary Doctoral Examination (0). (S/U grade only.)

EEL 8966r. Master’s Comprehensive Examination (0). (S/U grade only.)

EEL 8976. Master’s Thesis Defense (0). (S/U grade only.)

EEL 8985r. Dissertation Defense (0). (S/U grade only.)

For listings relating to the master’s and doctoral programs in electrical engineering, consult the *Graduate Bulletin*.

ELEMENTARY EDUCATION: see Elementary and Early Childhood Education

Department of ELEMENTARY AND EARLY CHILDHOOD EDUCATION

COLLEGE OF EDUCATION

Chair: Vivian Fueyo; *Professors:* Flake, Fueyo, Hansen, Palmer, Scott-Simmons, Wolfgang; *Associate Professors:* Clark, Jones, McCarty-Roberts (Panama City), Piazza; *Assistant Professors:* Almarza, Lake, Lundeen, Rice; *Assistants in Elementary Education:* Davis (Panama City), Rios (Panama City); *Professors Emeriti:* Green, Hafner, Kirby, Kirtland, Scott, Schluck

There are three major areas of specialization in the Department of Elementary and Early Childhood Education: early childhood education, elementary education, and reading and language arts education.

The primary missions of the Department of Elementary and Early Childhood Education are: 1) to conduct research that provides new knowledge for the improvement of practice in educational settings through the ongoing publication of basic and applied educational research, the dissemination of research findings at scholarly conferences, and the seeking of external research funding; and 2) to provide excellence in the preparation of educators at the undergraduate level in the fields of early childhood education, elementary education, and social science education. For a complete listing of all requirements concerning the continuation and graduation from a teacher education program, please refer to the “College of Education” chapter in this *General Bulletin*.

The following are offered by the Department of Elementary and Early Childhood Education:

Early childhood education +

Elementary education +

Reading education*

* graduate only
+ 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 Preservice Teacher Preparation Programs.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for the following University degree programs. Specific prerequisites are required for admission into the upper-division programs and **must** be completed by the student at either a community college or a state university prior to being admitted to these programs. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

The following lists the common prerequisites or their substitutions necessary for admission into these upper-division degree programs:

Elementary Teacher Education

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Fifty-one (51) semester hours, chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature and speech;
 - b) A minimum of nine (9) semester hours in mathematics, (MGF, MGT, MAC and STA prefixes only) excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

The only exception to the liberal arts and sciences requirement will be if there is a specific institutional requirement (e.g., a wellness course or a freshman seminar course) for the associate in arts or baccalaureate degree.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact the department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Pre-Elementary/Early Childhood Teacher Education

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Fifty-one (51) semester hours, chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature and speech;
 - b) A minimum of nine (9) semester hours in mathematics, (MGF, MGT, MAC and STA prefixes only) excluding MAT 1033, and including college algebra or higher and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

The only exception to the liberal arts and sciences requirement will be if there is a specific institutional requirement (e.g., a wellness course or a freshman seminar course) for the associate in arts or baccalaureate degree.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree.

Foreign language courses may be used to meet this requirement. Contact the department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

EARLY CHILDHOOD EDUCATION

Professor: Wolfgang; *Associate Professor:* Jones; *Assistant Professor:* Lake

The primary goal of early childhood (primary) education is to prepare educational leaders who are capable of working with the child, the family, and the community from age three, pre-k, and kindergarten through 3rd grade. Course work and extensive field experiences prepare graduates with specializations appropriate for educating the young child and designing curriculum for young children.

Undergraduate Curriculum in Early Childhood (Primary) Education Leading to a Baccalaureate Degree and Florida Teacher Certification

An undergraduate curriculum is offered for a bachelor of science (BS) degree in early childhood (primary) education with English for Speakers of Other Languages (ESOL) endorsement preparing students with major emphasis to teach ages three, pre-k and kindergarten through 3rd grade.

Each student preparing to teach early childhood (primary) education must take EEC 4204, 4301, 4303, 4400, 4604, 4907r, 4943; EDF 4430; EEX 4070; FLE 4591, 4794; LAE 3414, 4314; MAE 4300; RED 4310, 4510; SCE 4310; SSE 4113. These courses are restricted to admitted early childhood (primary) education majors only and must be taken in sequenced semester blocks. Students must maintain a cumulative 2.5 GPA or better in all courses completed for the program. All early childhood (primary) education students are assigned to the most appropriate location for student teaching, or to the London program, when available. Please contact the Department of Elementary and Early Childhood Education for a complete listing of course blocks and requirements.

Admission Requirements

Early childhood education is a limited access, limited enrollment program and admission is based on availability of faculty and space. Students planning to enter early childhood education must document their experiences working with a group of young children in settings such as camp counseling, teacher aide, substitute teaching, scouting team leader, swimming instructor, or a setting approved by the program prior to acceptance into the program. The program admits students once a year for the **Fall term**.

All students are urged to seek advising from the lower division advisors in the Office of Academic Services, 108 Stone Building. All students must complete 1) the Liberal Studies degree requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*, 2) the State of Florida common prerequisite for Early Childhood majors described earlier in this section, 3) the requirements for admission into a teacher education program described in the "College of Education" chapter of this *General Bulletin*, 4) a "C" or better in nine (9) semester hours of college English and college math, and 5) make application into the program as follows.

Application Requirements

To be considered for admission into Early Childhood, students must submit an application and the following by **March 15th for the fall semester** (an interview may be required following submission of an application). Applicants are selected on the basis of the following criteria: GPA, SAT/ACT and CLAST (exemptions not accepted), relevant experience, and professional promise.

1. Application form (available in 115 Stone Building or call (850) 644-5458);
2. Transcript of previous coursework and documentation of test scores (SAT/ACT, CLAST) and GPA;
3. Three (3) references forms (available from the department):
 - a) One (1) from someone who taught you in either junior high school, high school or college;
 - b) One (1) from someone who has observed you interacting with children; and
 - c) One (1) of your choice;
4. Essay: your response to **Teaching in a Changing World** (1 to 2 pages);
5. Checklist of program requirements; and,
6. Documentation of current coursework.

Definition of Prefixes

EEC	—	Education: Early Childhood
LAE	—	Language Arts and English Education
MAE	—	Mathematics Education
RED	—	Reading Education
SCE	—	Science Education
SSE	—	Social Studies Education

Undergraduate Courses

EEC 4204. Early Childhood Education Curriculum (3). The design and implementation of thematic curricula and direct instruction appropriate for children age 3 to grade 3. Microteaching required.

EEC 4301. Early Childhood Education Foundations (3). Introductory course to ECE primary education provides a background of ECE theory and research to be used for determining education practices.

EEC 4303. Expressive Arts for the Young Child (4). Prerequisites: Block I, ECE/UG Program; Corequisites: Block 2 courses. This course examines the role and value of the arts for the child. It explores developmental trends, appropriate practices, methods, media and curricula.

EEC 4400. Parents as Teachers (3). Examination of the need and importance of parental involvement in the education of young children. Includes strategies for promoting home/school interactions.

EEC 4604. Techniques of Child Study and Authentic Assessment (3). Investigates and utilizes data collection techniques/instruments to acquire information about young children.

EEC 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

EEC 4907r. Observation and Participation in Early Childhood Education (2–3). (S/U grade only.) This course offers students direct experiences with young children, organized in such a way that they have opportunities to put into practice those insights, principles, and understandings gained in the theory courses. May be repeated twice to a maximum of seven (7) semester hours.

EEC 4930r. Special Topics in Early Childhood (2–3). Current topics in early childhood are studied in depth. May be repeated to a maximum of nine (9) semester hours. May be repeated during the same semester.

EEC 4943. Student Teaching in Early Childhood Education (10). (S/U grade only.)

LAE 3414. Literature in the Elementary School (3). Corequisite: Block I. Approaches in building a literature program for the elementary grades. Critical survey of literature for children and consideration of teaching techniques.

LAE 4314. Language Arts for the Elementary School (3). Prerequisite: Block I. Corequisite: Block II. Designed to acquaint the prospective childhood teacher with effective strategies/materials for teaching the language arts and to introduce a variety of techniques for assessing growth in the area.

MAE 4300. Teaching Mathematics in the Primary Grades (3). To provide an overview of teaching mathematics in the primary grades.

RED 4310. Early Literacy Learning (3). Prerequisites: EDF 1005; EDG 2701. 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. Methods and materials for teaching developmental reading based on holistic reading/language comprehension strategies and skill development.

SCE 4310. Teaching Science in the Elementary School (3). Prerequisites: Blocks I and II. Corequisite: Block III. Designed to engage the student in self-directed, meaningful science activities for positive, cognitive, and affective growth.

SSE 4113. Elementary School Social Studies (3). Prerequisites: Blocks I and II. Corequisite: Block III. Content, applications, and materials in the social sciences, K–6.

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 5525. Childrens Centers (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 (3).

EEC 5942r. Supervised Teaching (1–5). (S/U grade only.)

EEC 5947. Field Laboratory Internship (1–8). (S/U grade only.)

EEC 6516. Educational Environments for Infants and Toddlers (3).

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.)

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

ELEMENTARY EDUCATION

Professors: Flake, Fueyo, Hansen; *Associate Professors:* Clark, McCarty-Roberts (Panama City); *Assistant Professor:* Almarza, Lundeen, Rice; *Assistants in Elementary Education:* Davis (Panama City), Rios (Panama City)

An undergraduate curriculum is offered leading to a bachelor of science (BS) degree in elementary education with English for Speakers of Other Languages (ESOL) endorsement preparing students to teach grades 1 through 6. Courses in elementary education are restricted to elementary education majors only. Prospective applicants who already have a bachelor's degree in another major are encouraged to seek admission to the master's degree program in elementary education.

Admission Requirements

Elementary education is a limited access, limited enrollment program based on availability of faculty and space. Students planning to enter elementary education must 1) Complete the Liberal Studies requirements summarized in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*; 2) Complete the State of Florida common course prerequisites for elementary education majors described earlier in this section; 3) Meet the requirements for admission into a teacher education program described in the "College of Education" chapter of this *General Bulletin*; 4) Achieve a "C" or better in nine (9) semester hours of college English and college Math; and 5) Make application into the program as follows.

Application Requirements

To be considered for admission into elementary education, students must submit an application and the following **any time prior to but not later than March 15 (fall semester) or October 15 (spring semester)**. Applicants are selected on the basis of the following criteria: GPA, SAT/ACT and CLAST (exemptions not accepted), relevant experience, and professional promise.

1. Application form (available in *115 Stone*) or on-line at <http://www.fsu.edu/~eece/ElemEduc>;
2. Transcript of previous coursework and documentation of test scores (GPA, SAT/ACT, CLAST, exemptions not accepted);
3. Minimum cumulative GPA of 2.5;
4. Three (3) reference forms (available from the department):
 - a) One (1) from someone who taught you in your freshman or sophomore year of college;
 - b) One (1) from someone who has observed you interacting with children; and
 - c) One (1) of your choice;
5. Typed Essay: your response to **Teaching in a Changing World** (1 - 2 pages),
6. Checklist of program requirements; and,
7. Documentation of current coursework.

Required Major Courses

Each student preparing to teach elementary education must take ARE 3313C; EDE 3322, 4341, 4421, 4907; EDF 4210, 4430; EEX 4070; FLE 4591, 4794; LAE 3414, 4314; MAE 4310, 4326; RED 4310, 4510; SCE 4310; SSE 4113. These courses are restricted to admitted elementary education majors only and **must be taken** in sequenced semester blocks. Students **must complete all** courses within a block with a grade of "C" or better, and maintain a cumulative GPA of 2.5 to be allowed to continue to the next block. For example, courses in Block I must be taken together as a block and are prerequisites for entry into Block II. Please consult the Department of Elementary and Early Childhood Education for a complete listing of course blocks and requirements.

Note: all four semesters in the program require field experiences in the public schools. EDE 4943, Student Teaching in Elementary Education, is only offered in the fall and spring.

Student Teaching Alternatives

Students have an option to complete their student teaching in an approved teaching center in London for the spring semester. Information about the London Program is available from the departmental London Program representative. Additionally, three geographical areas of Florida have been designated as regions where students may complete their student teaching in approved teaching centers. The department will provide a list of approved counties for student-teaching placement. The department reserves the right to restrict elementary education students with a GPA of less than 3.0 to the local area.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

CGS	—	Computer General Studies
EDE	—	Education: Elementary
LAE	—	Language Arts and English Education
MAE	—	Mathematics Education
RED	—	Reading Education
SCE	—	Science Education
SSE	—	Social Studies Education

Undergraduate Courses

EDE 3201. The Teacher in the Elementary and Middle School (3). Corequisite: Block I. Investigation of the role of the teacher from perspectives of planning, curriculum, organization, management, and problem solving.

EDE 3322. The Child in the Elementary and Middle School (3). Corequisite: Block I. Investigation of children from diverse cultural settings in the context of elementary school learning, curriculum, and teaching.

EDE 4341. Technology and Learning for Elementary and Middle School (3). Prerequisite: EME 2040 or permission of instructor. Designed to help preprofessional teachers use technology for the development of higher learning skills. Included in the technology content will be animated graphics, scanned pictures, and linked files. Students will be working with students in schools applying concepts from the class. Students will acquire technology skills that will allow them to develop electronic professional portfolios.

EDE 4421. Classroom Organization and Pupil Evaluation (4). Prerequisites: Blocks I, II, and III. Corequisite: Block IV. Designed to promote growth, awareness, and competence in the areas of classroom organization and pupil evaluation.

EDE 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

EDE 4907r. Directed Field Experiences (1–8). (S/U grade only.) Corequisites: Block I, II, or III. Participation in a public school classroom with University supervision. May be repeated to a maximum of (8) semester hours to be taken in the following manner: at least one (1) hour in Block I, one (1) hour in Block II, and two (2) hours in Block III.

EDE 4943. Student Teaching in Elementary Education (10). (S/U grade only.) Prerequisites: Blocks I, II, and III. Corequisite: Block IV.

EDE 4970r. Honors Work (3). Open to participants in the elementary education honors program. Up to twelve (12) semester hours of honors work may be taken. Six (6) thesis hours are required. Seminars are optional.

LAE 3414. Literature in the Elementary School (3). Corequisite: Block I. Approaches in building a literature program for the elementary grades. Critical survey of literature for children and consideration of teaching techniques.

LAE 4314. Language Arts for the Elementary School (3). Prerequisite: Block I. Corequisite: Block II. Designed to acquaint the prospective childhood teacher with effective strategies/materials for teaching the language arts and to introduce a variety of techniques for assessing growth in the area.

MAE 4310. The Teaching of Elementary School Mathematics (3). Prerequisites: Block I and II; Corequisite: Block III. 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 view points. Technology as a tool for learning mathematics will be included.

RED 4310. Early Literacy Learning (3). Prerequisites: EDF 1005; EDG 2701. 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. Methods and materials for teaching developmental reading based on holistic reading/language comprehension strategies and skill development.

SCE 4310. Teaching Science in the Elementary School (3). Prerequisites: Blocks I and II. Corequisite: Block III. Designed to engage the student in self-directed, meaningful science activities for positive, cognitive, and affective growth.

SSE 4113. Elementary School Social Studies (3). Prerequisites: Blocks I. Corequisite: Block II. Content, applications, and materials in the social sciences, K–6.

Graduate Courses

CGS	5112.	Using Computer Graphics as an Instructional Tool (3).
CGS	5113.	Using Computer Simulation as an Instructional Tool (3).
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	5346.	Technology in Elementary and Middle School (3).
EDE	5511.	Organization for Classroom Instruction in the Elementary School (3).
EDE	5526.	Systematic Procedures of Observation (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	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.)
EDS	5356.	Supervision of Associate Teaching (3). (S/U grade only.)
MAE	5318.	The Topics and Teaching of Elementary School Mathematics (4).
MAE	5655.	Computers in Mathematics Education (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

READING AND LANGUAGE ARTS

Professors: Palmer, Scott-Simmons; *Associate Professor:* Piazza

Reading education and language arts is a graduate program offering degrees at the master's, specialist, and doctoral levels. For more information,

refer to the *Graduate Bulletin*. However, the program does offer several undergraduate courses that are part of the teacher education curriculum.

Definition of Prefixes

- LAE — Language Arts and English Education
 LIS — Library and Information Studies
 RED — Reading Education

Undergraduate Courses

RED 4360. Teaching Reading in Middle/Secondary Schools (3). A course designed to introduce prospective teachers to developmental and corrective reading practices.

RED 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

Graduate Courses

- LAE 5319. Teaching Oral and Written Expression in the Elementary School (3).
 LAE 5349. Language and Literacy Development through Storytelling/Storywriting (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 5931r. Special Topics in Elementary Language and Literature (1–3).
 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. Supervision and Instruction in Secondary School Reading (3).
 RED 5385. Teaching Reading to Adult Illiterates (3).
 RED 5546. Diagnosis of Reading Disabilities (3).
 RED 5548. Correction of Reading Disabilities (3).
 RED 5646. Trends and Issues in Reading (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 (1–3). (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*.

**EMOTIONAL
 DISTURBANCE/LEARNING
 DISABILITIES:
 see Special Education**

Department of ENGLISH

COLLEGE OF ARTS AND SCIENCES

Chair: Hunt Hawkins; *Eppes Professor:* Butler; *Griffith T. Pugh Professor:* Bickley; *Kellogg W. Hunt Professor:* Bishop; *Fred L. Standley Professor:* Fenstermaker; *George M. Harper Professor:* Lhamon; *Francis G. Townsend Professor:* Ortiz-Taylor; *William Hudson Rogers Professor:* McElrath; *Sarah Herndon Professor:* Gontarski; *Bertram H. Davis Professor:* Boehrer; *Janet Burroway Professor:* Winegardner; *McKenzie Professor:* Kirby; *Daisy Parker Flory Alumni Professor:* Standley; *Professors:* Berry, Crook, Fowler, Hawkins, O'Rourke, Rowe; *Associate Professors:* Burke, Dickson-Carr, Gardner, Johnson, Laughlin, McGregory, Montgomery, Moore, Saladin, Suarez, Walker; *Assistant Professors:* Cooper, Edwards, Epstein, Faulk, Goodman, Kimbrell, North, Picart, Poster, Shinn, Stuckey-French, Vitkus; *Professors Emeriti:* Burroway, Davis, Harper, Hunt, Pugh, Randel

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 or writing; students may also pursue other specialized programs such as honors in the major, an English major with an emphasis in business, teaching certification, or other independent courses of study. In addition to its primary benefits to intellectual growth, the English major also offers practical preparation for professional careers in teaching, professional writ-

ing, law, medicine, business, religious affairs, and all levels of government service—local, state, and federal.

The study of literature 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. All of these courses contribute to the student's knowledge of human culture and how literary texts as cultural artifacts relate to other bodies of human knowledge such as philosophy, history, religion, psychology, classics, and modern languages.

The study of 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 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. Other options such as the English/business program or teaching certification allow students to supplement the major with rigorous and substantial minor courses of study.

A variety of activities and facilities are available to all majors. Two literary magazines, *Kudzu* and *The Southeast Review*, are published in the de-

partment. 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 which brings twelve to fourteen writers and scholars to campus each year. The English department, in conjunction with the campus-wide Seven Days of Opening Nights program, also promotes headline writers, such as John Updike. In addition, the department has developed a series which brings editors and agents to the campus for presentations and individual consultations with Florida State University students. The department maintains a growing videotape collection to supplement classroom instruction, and two computer classrooms house computer-assisted writing instruction. All majors with a GPA above 3.0 are eligible to apply for membership in Lambda Iota Tau, 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 McKay Shaw Academy of American Poets Award, the George Yost Essay Award, and the Mart P. and Louis Hill English Honors Thesis Award.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. ENC 1101 and ENC 1102; or six (6) semester hours of courses taught in the English Department each with 6,000 words of evaluated writing for a total of 12,000 words.

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 (52) 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 Gordon rule (State Board of Education Rule 6A-10.030).

For Upper-Division Courses in the Major (Non-Liberal Studies)

Satisfactory completion (pass) of at least two semesters of college-level classical or modern foreign language courses or the equivalent (native speakers of a foreign language excepted).

Only majors who have satisfied these prerequisites will be permitted to register for upper-division non-liberal studies English courses.

Requirements for a Major in English

General Requirements: Thirty-three (33) semester hours of English in courses numbered above 1999. At least twenty-one (21) semester hours must be in courses at the 3000 and 4000 levels, including at least nine (9) semester hours at the 4000 level. Honors thesis hours may be applied toward the bachelor of arts (BA) degree, but only three (3) semester hours will be accepted for major credit. Majors who complete teacher certification requirements may count three (3) semester hours of internship elective credit at the 3000 level. 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.

Each student will choose one of the following areas:

1. Concentration in Literature

- a) Three (3) semester hours in ENG 3014 Critical Issues in Literary Studies (must be taken before student reaches ninety [90] semester hours);
- b) **Literature Courses:** At least eighteen (18) semester hours of literature courses beyond the 2000 level. Specifically required are:
 - i) Three (3) semester hours in United States literature at the 3000 or 4000 level;
 - ii) Six (6) semester hours in British literature before 1800, including at least three (3) semester hours before 1660, at the 3000 or 4000 level;
 - iii) Three (3) semester hours in British literature after 1800 at the 3000 or 4000 level;
 - iv) Three (3) semester hours in ENG 4934 **Senior Seminar in English** (must be taken after student reaches ninety [90] semester hours); and
 - v) Three (3) semester hours in other literature courses at the 3000 or 4000 level.
- c) **Electives:** Twelve (12) semester hours in other English courses.

2. Concentration in Writing

- a) **Writing Courses:** Fifteen (15) semester hours in at least two of the following categories, of which at least nine (9) semester hours shall be in workshop courses listed below in bold type. Workshop courses with the "r" designation are repeatable with the instructor's permission. **Note:** only three (3) semester hours of ENC 3310r Article and Essay Workshop may count toward the nine (9) semester hours in workshop courses.
 - i) Article and Essay: **ENC 3310r**, **ENC 4311r**; ENG 4020; ENG 4212, ENC 4500, ENC 4942r;

- ii) Fiction: CRW 3110, **CRW 4120r**;
- iii) Poetry: CRW 3311, **CRW 4320r**;
- iv) Drama: CRW 3410, **CRW 4420r**.

b) **Literature Courses:** Fifteen (15) semester hours of literature, of which at least three (3) semester hours shall be in English literature before 1900.

c) **Electives:** Three (3) semester hours in other English courses.

3. Concentration in English Studies

Students desiring to structure their own concentrations may propose a coherent program emphasizing, for example, a period, a genre, a theme, theory and criticism, or a combination of areas such as popular culture and film. The proposal, formulated in close consultation with and approved by the student's adviser, should include a total of at least twenty-four (24) semester hours at the 3000 and 4000 levels (nine [9] of these twenty-four [24] semester hours must be at the 4000 level in English and nine [9] may be in relevant courses outside the department). The proposal must be submitted to the faculty undergraduate committee for approval before midterm in the last semester of the student's junior year. To be eligible for the concentration in English studies, students must have at least a 3.0 cumulative GPA.

Exit Surveys/Interviews

To be eligible for graduation, each student must complete an exit interview or survey.

Honors in the Major

The Department of English offers honors in the major to encourage talented students to undertake independent research via two special seminars and two semesters of thesis work. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin* and the Director of Undergraduate Studies in English.

Requirements for a Minor in English

Minor: at least twelve (12) semester hours in English courses numbered above 1999. Students must have at least a "C-" average in the minor.

English Major with an Emphasis in Business

This program is designed for those students who are interested in a liberal education that will at the same time give them maximum preparation for a business career. The curriculum combines extensive training in the broad field of the liberal arts with specialized training in the field of business. At the end of four years the student graduates with a bachelor of arts degree with a major in English and an emphasis in business. Students

pursuing this program will meet the requirements of the English major and take a specified number of hours in business, normally thirty (30) semester hours. For a list of the business courses required and other information concerning the program, the student should contact the Director of Undergraduate Studies in English or the departmental academic advisers. This program, emphasis in business, is in contrast to the eighteen (18) semester hours which constitute a minor in business for arts and sciences majors.

Definition of Prefixes

AML	—	American Literature
CRW	—	Creative Writing
EAP	—	English as a Second Language for Academic Purposes
ENC	—	English Composition
ENG	—	English: General
ENL	—	English Literature
LAE	—	Language Arts and English Education
LIN	—	Linguistics
LIT	—	Literature

Undergraduate Courses

ENC 1101. Freshman Composition and Rhetoric (3). 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 About Literature (3). Prerequisite: ENC 1101 or 1149. Drafting and writing of essays and a journal for a total of 7,000 words on topics drawn from selected short stories, drama, and poetry. Not a literature class. No auditors.

ENC 1121. Freshman Composition and Rhetoric: Honors (3). This accelerated course is designed for honors students. Therefore, their level of performance will be expected to exceed the level attained by students in ENC 1101. Enrollment through the honors program.

ENC 1122. Freshman Writing About Literature: Honors (3). As a literature-based composition course, essay topics will be drawn from selected short stories, drama, and poetry. This accelerated course is designed for honors students; thus, their level of performance will be 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 1149. 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 will total 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 1149. 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 will total 7,000 words. No auditors.

ENC 1145. Freshman Special Topics in Composition (3). Prerequisite: ENC 1101 or 1149. Freshman-level nonfiction prose writing on selected subjects for a total of 7,000 words. Topics vary. No auditors.

ENC 1149. Basic English Skills (6). Credit by CLEP examination only.

ENC 1905r. Improving College-Level Writing (1–3). (S/U grade only.) Individualized program of instruction in writing, including CLAST skills. Open to students from all levels and major areas. May be repeated for a maximum of three (3) semester hours.

REA 1905r. Improving College-Level Reading (1–3). (S/U grade only.) Individualized program of instruction in critical and comprehensive reading, including CLAST skills. Open

to students from all levels and major areas. May be repeated for a maximum of three (3) semester hours.

AML 2011. American Authors to 1875 (3). 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. The African-American Literary Tradition (3). A survey of the canonical works of African Americans, typically including Douglass, Chesnut, Hurston, Wright, Ellison, Baldwin, Morrison, and Walker.

ENC 2305r. Topics in Composition (3). Prerequisites: ENC 1101, 1102. Study and practice in various topics in expository writing. Instruction focuses on the conventions and purposes of particular kinds of writing or on certain aspects of composition. May be repeated to a maximum of six (6) semester hours.

ENL 2012. British Authors: Beginnings to 1790 (3). Survey of English masterworks intended for students in Liberal Studies and those exploring a literature major. Among the authors typically considered are Chaucer, Shakespeare, and Milton.

ENL 2022. British Authors: Early Romantics to the Present (3). 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.

LIT 2020. Introduction to the Short Story (3). Tone, narration, form, and theme in representative short stories.

LIT 2081. Contemporary Literature (3). Poetry, fiction, drama from WWI to the present. For beginning students.

LIT 2189. Introduction to Global Literature in English (3). Introduction to English-language literature from countries that were former British colonies in Africa, Asia, and the Caribbean.

AML 3024. American Authors Since 1875 (3). 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). Examination of selected works of major American writers.

AML 3630. Latino/a Literature in English (3). Introduction to landmark Latino/a works written in English.

AML 3682. American Multi-Ethnic Literature (3). Introduction to cross-cultural literary traditions, looking at historical rationales and interconnections among communities as well as vital differences.

CRW 3110. Fiction Technique (3). Analysis of and exercises in the elements of fiction: point of view, conflict, characterization, tone, and image.

CRW 3311. Poetic Technique (3). For aspiring poets and critics. Study of the elements of poetry, some practice in writing poetry.

CRW 3410. Dramatic Technique (3). An introduction to playwrighting, with emphasis on the relation of the written drama to production. Both published plays and student work will be analyzed.

ENC 3310r. Article and Essay Workshop (3). Writing of nonfiction prose. Papers totaling 8,000 words. Five private conferences. For students above the freshman level. May be repeated to a maximum of six (6) semester hours. This course will satisfy up to 7,000 words of writing requirements for State Board of Education Rule 6A-10.030.

ENG 3014. Critical Issues in Literary Studies (3). Introduction to the issues and debates that inform contemporary literary studies. Required of all literature track majors.

ENG 3060. The History of Standard English (3). A survey of the evolution of English sounds, inflections, syntax, vocabulary, and orthography from Anglo-Saxon times to the present.

ENG 3110. Film Genres (3). 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 3115. Film Theory and Criticism (3). Close reading of forms of film criticism: history, theory, genre studies, and reviews. Typically Eisenstein, Metz, Bazin, Mulvey, Gunnig, and Hansen. Some films will be viewed.

ENG 3931r. Topics in English (13). May be repeated to a maximum of twenty-four (24) semester hours.

ENL 3210. Medieval Literature in Translation (3). 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). An introduction to the study of Shakespeare at the college level. Consideration of representative works of comedy, history, tragedy, tragi-comedy drawn from throughout the playwright's career.

LIN 3010. Introduction to Language Study (3). The relationship between meaning, form, and sound in language, including language acquisition, dialects, and grammar.

LIT 3043. Modern Drama (3). From O'Neill, Pirandello, Miller, and Theatre of the Absurd to the present.

LIT 3383. Women in Literature (3). An examination of the representation of women in literature.

AML 4111. The 19th-Century American Novel (3). From Brown and Cooper to Hawthorne, Melville, Twain, and Crane.

AML 4121. The 20th-Century American Novel (3). Typically Dreiser, Dos Passos, Fitzgerald, Hemingway, Faulkner, Bellow, and Wright.

AML 4261. Literature of the South (3). 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). An examination of selected works by major African American writers.

AML 4680r. Studies in Ethnic Literature (3). 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 (24) semester hours.

CRW 4120r. Fiction Workshop (3). Prerequisite: Permission of instructor. Practice in short story, novella, or novel. Students will be expected to work toward submission and publication of manuscripts. May be repeated for a total of twenty-four (24) hours credit.

CRW 4320r. Poetry Workshop (3). Prerequisite: Permission of instructor. For poets who approach excellence and aspire toward publication. May be repeated for a total of twenty-four (24) hours credit.

CRW 4420r. Drama Workshop (3). Prerequisite: Permission of instructor. Students will 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 (24) semester hours.

EAP 4830r. Spoken English for International Teaching Assistants (1–3). (S/U grade only.) Practice and training in speaking current American English appropriate for university classrooms, development of cultural and interpersonal language skills necessary for performing duties as a teaching assistant. May be repeated to a maximum of twelve (12) semester hours.

EAP 4831r. Advanced Spoken English for International Teaching Assistants (1–2). (S/U grade only.) 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 (8) semester hours.

ENC 4212. Editing: Manuscripts, Documents, Reports (3). Actual editing of another's work, synthesizing another's ideas and data, structuring and clarifying.

ENC 4311r. Advanced Article and Essay Workshop (3). Prerequisite: Permission of instructor. Writer-editor relationship between student and instructor. For writers who aspire toward publication. May be repeated to a maximum of twenty-four (24) semester hours.

ENC 4500. Theories of Composition (3). Prerequisites: ENC 3310r, permission of instructor. 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 (0–3). (S/U grade only.) Practical experience in editing, public relations, and other forms of written communications. ENC 4212 recommended as a prerequisite. May be repeated to a maximum of three (3) semester hours.

ENG 4013. Literary Criticism (3). An 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, Woolf.

ENG 4020. Rhetorical Theory and Practice (3). Prerequisites: ENC 3310r, permission of instructor. Emphasis on 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: Permission of instructor. Advanced study of crosscurrents in later 20th-century critical theory.

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 (24) semester hours.

ENG 4932r. Studies in English (1–3). Topics vary. For senior majors and qualified students. May be repeated to a maximum of twenty-four (24) semester hours.

ENG 4934. Senior Seminar in Literature (3). Prerequisites: Ninety (90) semester hours of college work. Topics vary. Required for senior English majors concentrating in literature. Does not count toward the major for concentration in writing.

ENG 4936r. Honors Thesis (1–6). Prerequisite: Permission required. For English honors students only. The honors student takes two semesters of thesis work. May be repeated to a maximum of nine (9) semester hours.

ENG 4938. Advanced Seminar in English (3). For English Honors students only. The honors student takes two seminars. Permission required. May be repeated to a maximum of six (6) semester hours.

ENL 4112. The 18th-Century British Novel (3). Typically includes Defoe, Richardson, Fielding, Sterne, Burney, and Radcliffe.

ENL 4122. The 19th-Century British Novel (3). Typically includes Scott, Thackeray, Dickens, Trollope, Eliot, and Hardy.

ENL 4132. The Modern British Novel (3). Typically includes Conrad, Lawrence, Joyce, Woolf, Greene, Spark, and Lessing.

ENL 4161. Renaissance Drama (3). 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). 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). 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). 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). Studies in British poetry and prose from 1660 to 1800.

ENL 4240. British Romantic Literature (3). Studies in poetry and prose from 1785 to 1832.

ENL 4251. Victorian British Literature (3). Studies in poetry and prose from 1830 to 1900.

ENL 4273. Modern British Literature (3). British poetry, fiction, and essays since 1900. Typically includes Hardy, Conrad, Joyce, Yeats, Lawrence, Woolf, Auden, and Lessing.

ENL 4311. Chaucer (3). The High Middle Ages in England seen through the perspective of the *Canterbury Tales* read in Middle English.

ENL 4333. Shakespeare (3). Study of representative Shakespearean dramas and their relationship to the Renaissance. Typically may include attention to relevant contemporary intellectual, historical, and political movements.

ENL 4341. Milton (3). Milton's life and works; emphasis on *Lycidas*, *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*, and Milton's important libertarian prose.

EAP 4832r. American Pronunciation for International Teaching Assistants (1–3). (S/U grade only.) 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.) Typically emphasizes classroom observation, self-monitoring techniques, and specialized training. May be repeated to a maximum of twelve (12) semester hours.

LIT 4033. Modern Poetry (3). Introductory analysis of techniques and meanings. Typically includes Whitman, Dickinson, Yeats, Frost, Stevens, Eliot, Auden, Thomas, and Plath.

LIT 4044r. Readings in Dramatic Literature (3–6). Specific topics in the study of British, American, or Continental drama. May be repeated to a maximum of six (6) hours credit.

LIT 4093. Currents in Contemporary Literature (3). Diverse, resurgent, and oppositional trends in literature since 1945; Mailer, Brautigan, Bellow, and others.

LIT 4134. The European Novel Through WWI (3). Includes Balzac, Flaubert, Dostoevsky, Tolstoy, and others. In translation.

LIT 4144. The Modern European Novel (3). Typically Grass, Robbe-Grillet, Kafka, Solzhenitsyn, Calvino, Duras, Ginzburg, and Kundera in translation.

LIT 4183. 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 4184. Irish Literature (3). 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 4304. The Literary Expression of American Popular Culture (3). 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). 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). An examination of selected works by significant women writers.

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. Editing: Manuscripts, Documents, Reports (3).

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 (0–3). (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 5068r. Studies in Language and Linguistics (3).

ENG 5138r. Studies in Film (3).

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.)

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 5185r. Studies in Post-Colonial Literature in English (3).

LIT 5186r. Studies in Irish and/or Scottish Literature (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).

ENG 6907r. Directed Readings (1–6). (S/U grade only.)

ENG 6939r. Seminar in English (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

**ENGLISH EDUCATION:
see Middle and Secondary
Education**

Major in ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT

COLLEGE OF BUSINESS

Director and Jim Moran Professor of Entrepreneurship: Jerome S. Osteryoung; Professors: Coats, Corbett, Giunipero, Hillison, Kacmar, Maroney, Martinko, Osteryoung, Perrewé; Associate Professors: Flynn, Matherly; Lecturer: Denslow

The undergraduate major in entrepreneurship and small business management (ESBM) is designed for those who want to learn more about entrepreneurial and small business fundamentals and concepts. Students admitted into this major will participate in courses and seminars staffed by faculty members, as well as entrepreneurs and small business owners/managers. Students will have opportunities to learn firsthand what is needed to start a new business venture, as well as run an existing business.

The purpose of the ESBM major is to give students the knowledge, skills, and confidence to start or run their own business.

Students who successfully complete the ESBM major will receive a bachelor of science (BS) degree in business administration. They may also major in any of the functional academic areas in the College of Business.

Students seeking the ESBM major first must be admitted to the College of Business. The final decision regarding admission to the ESBM major will be based on a student's written application and an interview with the ESBM curriculum director. Student applications must be completed by October 15th of each academic year. Information regarding admissions can be obtained from the College of Business undergraduate programs office (RBB 328).

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in Entrepreneurship and Small Business 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 entrepreneurship and small business management majors; 3) the general business core requirements for entrepreneurship and small business management majors; 4) the general business breadth requirements for entrepreneurship and small business management majors; and 5) the major area requirements for entrepreneurship and small business management majors. **Note:** to be eligible to pursue an entrepreneurship and small business management major, students must meet the admission requirements of the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All entrepreneurship and small business management majors must complete the following five (5) 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 Communication (3).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All entrepreneurship and small business management majors must complete five (5) 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 major area requirements.

ISM	3011	Introduction to Management Information Systems (3).
QMB	3200	Quantitative Methods for Business Decisions (3).
Plus three (3) electives from the following list of courses:		
FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All entrepreneurship and small business management majors must complete eight (8) courses as listed below. A grade of "C-" or better must be earned in each course used to satisfy the entrepreneurship and small business management major area requirements. No course may be used to satisfy part of the major area requirements and part of the general business breadth requirements.

GEB	3130	Introduction to Entrepreneurship and Small Business Management (3).
GEB	4113	Managing the Small to Mid-Sized Company (3).
GEB	4122	Seminar in Small Business Analysis and Assistance (3).
GEB	4131	Entrepreneurial Seminar (3).

Plus four (4) electives from the following list of courses:

ACG	3171	Analysis of Financial Statement Presentation (3).
ACG	3331	Cost Accounting and Analysis for Business Decisions (3).
FIN	4424	Problems in Financial Management (3).
HFT	3000	Introduction to Hospitality and Tourism Management (3).
MAN	3504	Services Operations Management (3).
MAN	4301	Human Resource Management (3).
MAR	3323	Promotional Management (3).
MAR	3461	Principles of Purchasing (3).
MAR	4403	Sales Management (3).
REE	3043	Real Estate (3).

Definition of Prefix

GEB	—	General Business
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Undergraduate Courses

Note: The following listed courses are restricted to ESBM majors only.

GEB 3130. Introduction to Entrepreneurship and Small Business Management (3). Prerequisites: MAN 3240; BUL 3310; MAR 3023; admission to the ESBM major. Exposes students to the knowledge and skills required to be a successful entrepreneur. Topics include: challenges of entrepreneurship, start-up, buy-out and franchising opportunities, marketing and financial concerns, and management issues. Students will have the opportunity to interact with local entrepreneurs and to complete a feasibility study for their future business.

GEB 4113. Managing the Small to Mid-Sized Company (3). Prerequisite: GEB 3130. This course addresses the management of rapidly growing entrepreneurial firms. Topics will include building an infrastructure, planning stage financing, managing under adversity and managing a business with rapid growth.

GEB 4122. Seminar in Small Business Analysis and Assistance (3). Prerequisite: Permission of the instructor. Selected seminars complemented by a 10-week, two-person student consulting team working with a local area entrepreneurial client. Closely supervised consultation with a comprehensive consulting report provided for each client.

GEB 4131. Entrepreneurial Seminar (3). Prerequisite: GEB 3130. Focus on the financial strategies for survival and expansion of existing entrepreneurial businesses, as well as for developing new business ventures.

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. May be repeated to a maximum of nine (9) semester hours as content varies. Prerequisites may vary as content varies; contact the department for further information.

**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**

Department of FAMILY AND CHILD SCIENCES

COLLEGE OF HUMAN SCIENCES

Chair: Ronald Mullis; *Professors:* Darling, Hicks, Krantz, R. Mullis, Ralston; *Associate Professors:* Cornille, Greenwood, A. Mullis, Readdick, Rehm; *Assistant Professor:* Allison; *Associate in Family and Child Science:* Mills; *Professors Emeriti:* Dales, Hansen-Gandy, Hendrickson, Pestle, Rapp, Ridley-Bell, Zongker

The Department of Family and Child Sciences offers undergraduate degrees in two programs: family and child sciences, and family and consumer sciences education.

The **family and child sciences program** focuses on family relations, marital interaction, parent-child interaction, and the growth and development of children within a life course perspective and from an applied developmental scientific base. The program provides students with an introduction to working in applied settings, including hospitals, human service agencies, education, and child care settings. Internships and practica are made available to majors as part of their learning experience.

The major in family and child sciences includes human sciences general core courses, developmental courses in the major or minor, and an approved area of concentration in an allied field. Internships in applied settings are recommended. The family and child sciences major requires four courses as prerequisites. They include general psychology and general biology or their equivalents. In addition, students must achieve at least a "B-" in FAD 2230 and CHD 3220. Individuals who apply for the major but who have not met prerequisite requirements will be classified as Prerequisite Incomplete (P.I.)

The **family and consumer sciences education program** is a broad-based program preparing graduates to teach family and consumer sciences in middle and secondary schools, to work with the Cooperative Extension Service and to assume a variety of educator positions in business, industry and government. Students gain a background in all subject matter areas of human sciences and an understanding of the teaching-learning process. Graduates learn to appreciate the unique needs of the physically and mentally challenged, the economically disadvantaged, elderly populations, and other special-need groups.

The major in family and consumer sciences education includes the specific liberal studies courses, AMH 1000; APB 1150; CHM 1020; ECO 2000; POS 1041; PSY 2012; CGS 2060 and the following courses in the College of Human Sciences: CTE 1401, 1310, 3201; HUN 1201, 4412; FOS 3022, 3022L; HHD 3130; CHD 3220, 3240; FAD 2230; HME 4221; COA 4131 or 3151; HOE 3050; HEE 3103, 4150, 4171, 4300, 4343, 4941.

Curriculum guides stating specific degree requirements for the two undergraduate majors are available through the Department of Family and Child Sciences.

State of Florida Common Course Prerequisites

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The State of Florida has identified common course prerequisites for these University degree programs. These prerequisites are lower-level courses

that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for these degree programs:

Family and Child Sciences

1. One course (three [3] semester hours) with the APB prefix;
2. One course (three [3] semester hours) with the PSY prefix;
3. CHD X220;
4. FAD X230;
5. HUN X201.

Human Sciences, General

1. CHM X020;
2. CTE X310;
3. CTE X401;
4. ECO X013;
5. FAD X230;
6. HUN X125;
7. HUN X201.

Family and Consumer Sciences Teacher Education (Vocational)

1. EDF X005;
2. EDG 2701;
3. EME 2040;

4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

- a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
- b) A minimum of nine (9) semester hours in mathematics, (MGF, MGT, MAC and STA prefixes only) excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
- c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
- d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
- e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history;

5. **One** course from each of the following areas for a total of fifteen (15) semester hours: biology; chemistry; economics; psychology; political science.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses in category #5 above may be applied to the corresponding requirements in liberal arts and sciences noted above.

Special Criteria for Teacher Education Program

Please refer to the "College of Education" chapter of this *General Bulletin* for undergraduate criteria for the teacher education program.

Criteria for Admission to Associate Teaching

Please refer to the "College of Education" entry for admission to associate teaching.

In addition, the following departmental requirements must be met for admission to associate teaching:

1. Completion of specified courses in the area of teaching field specialization;
2. An overall grade point average (GPA) of 2.5 or above in all course work completed in the teaching field specialization;
3. An overall GPA of 2.5 or above in all professional education course work completed; and,
4. An overall GPA of 2.0 or above in all liberal studies or general education course work.

Certifications

The major in family and child sciences with certification in early childhood or elementary education includes human sciences core courses, five courses in the major, and all courses required by the College of Education for teacher certification in Florida. Students must meet current minimum standards for grade point average, SAT/ACT scores, and tests of proficiency for admission to the major with certification.

The family and consumer sciences education major includes the requirements for teacher certification as established by the Florida Department of Education and qualifies graduates to teach both the consumer-homemaking and occupational aspects of family and consumer sciences in middle/junior high schools, high schools, and adult programs. The curriculum is approved by the State Board of Vocational Education.

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 Program and Honor Societies" chapter of this *General Bulletin*.

HEE 4912r. Honors Work (3). 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 (6) semester hours.

HOE 4972r. Honors Work (3). Prerequisites: Upper-division majors with an overall grade point average of 3.5 and consent of instructor. Course provides upper-division students in Family and Child Sciences 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 (6) semester hours.

Minors

The department offers a minor in family and child sciences which requires a student to complete, with a grade of "C" or better, the following two courses and two additional courses in the department for a total of twelve (12) semester hours.

FAD 2230	Family Development (3)
CHD 3220	Child Development (3)

Definition of Prefixes

CHD	—	Child Development
FAD	—	Family Development
HEE	—	Home Economics Education
HOE	—	Home Economics: General

Undergraduate Courses

Family and Child Sciences

CHD 3220. Child Growth and Development: The Foundation Years (3). The study of the children from birth through middle childhood.

CHD 3240. Adolescent Growth and Development (3). The study of children from ten (10) years of age to young adulthood.

CHD 3472. Child Guidance (3). Prerequisites: CHD 3220; FAD 2230, 3220, 4936r. Students will 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 3921. Tutorial in Applied Developmental Science (1). This course is designed as an orientation to child development and family relations.

CHD 4225. Contexts for Early Childhood Development (3). Prerequisites: CHD 3220; FAD 2230, 3220, 4936 and twelve (12) semester hours in the major. Corequisite: FAD 4805. Students will learn to create contexts relationships, activities, and environments for the enhancement of the physical, social, emotional, and cognitive development of young children from birth to five years of age in homes and other institutions.

CHD 4250. Contexts for Middle Childhood/Adolescent Development (3). Prerequisites: CHD 3220; FAD 2230, 3220, 4936r and twelve (12) semester hours in the major. Corequisite: FAD 4805. This course has been designed to examine developmental processes of school-age children and adolescents. This course is a prerequisite course for practica experiences with these age groups. Consequently, strategies for working with school-age children and adolescents also will be addressed.

CHD 4441. Practicum in Preschool Development (3). Prerequisite: Senior standing. Normal growth and development from three to five years with emphasis on developmentally appropriate guidance, activities, and environments for preschoolers.

CHD 4451. Practicum in School Age Development (3). Prerequisite: Senior standing. Normal growth and development from five to eleven years with emphasis on developmentally appropriate guidance, activities, and environments for school age children.

CHD 4461. Practicum in Infant Development (3). Prerequisite: Senior standing. Normal growth and development from birth to three years with emphasis on developmentally appropriate guidance, activities, and environments for infants and toddlers.

CHD 4530. Parent Education and Professional Relations (3). Prerequisites: FAD 3220; FAD 2230; or permission of instructor. Special information, techniques, and resources are provided to facilitate home, school, and community relations. Professional interactions with parents, supervisors, and various social agencies are examined.

CHD 4615. Public Policy: Child and Family Issues (3). Prerequisites: FAD 2230, 3220; plus twelve (12) semester hours in the major. Through readings, lecture, discussion, guest speakers, field work, research and writing, students will become familiar with the process of formulating, implementing, and evaluating public policy. Family and child issues that have resulted in policy decisions at every level will be identified and current issues that are in need of attention by policy makers will be explored. Research related to family issues and its impact on family policy will be analyzed with emphasis on enhancing the role of family and child professionals in policy process.

CHD 4630. Studying Children: Techniques and Issues (3). Prerequisite: FAD 3220 or permission of the instructor. A survey of methods of child study and research.

CHD 4905r. Directed Individual Study in Child Development (1–3). May be repeated to a maximum of nine (9) semester hours.

CHD 4935r. Special Topics in Child Development: Topics Vary (3–9). Prerequisites: FAD 3220; background knowledge in child development; permission of instructor. Each topic may be taken only once. May be repeated to a maximum of nine (9) semester hours but credit is allowed only once in age level.

CHD 4944r. Internship Child Development (1–12). (S/U grade only). Prerequisites: Senior standing and permission of instructor. Supervised practical field experiences in various professional settings related to child development, including hospitals, extension service, education facilities, government agencies. Child development majors only. May be repeated to a maximum of twelve (12) semester hours.

FAD 2230. Family Relationships: A Life Span Development Approach (3). A study of families and interpersonal relationships in a changing society. Emphasis is on a life cycle approach to understanding the dynamics of family relationships.

FAD 3220. Individual and Family Life Span Development (3). Analysis of individual and family development as it applies to professional application in human services.

FAD 3271. Ecological Contexts for Individual and Family Development (3). Prerequisites: FAD 2230, 3220. 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 3432. Stress and Resilience in Individuals and Families (3). Prerequisites: CHD 3220; FAD 2230, 3220; and twelve (12) semester hours of credit in major. This course provides undergraduate majors with an introduction to family-based, stress-focused mini-theories. The course will provide 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 4229. Contexts for Adult Development (3). Prerequisites: FAD 2230, 3220; plus twelve (12) semester hours in major. Corequisite: FAD 4805. This course is a prerequisite for practical experience with these age groups. Students will examine development in adults and learn strategies for enhancing the physical, social, emotional, and cognitive development of adults from an ecological perspective.

FAD 4265. Contexts for Family Development (3). Prerequisites: CHD 3220; FAD 2230, 3220. Corequisite: FAD 4805. This course is designed to provide students with an introduction to child and family services in an eco-systemic context. This course is a prerequisite for the practicum in family services. An emphasis is placed on articulation of an ethical and professional standard for students to use their working relationships with families.

FAD 4340. Later Maturity (3). Prerequisite: Background in child development or family relations. Problems, potentials, and adjustments during the later years of life.

FAD 4601. Foundations of Counseling (3). Prerequisites: Senior standing, permission of instructor. 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. Observation and Participation in Applied Developmental Science (3). Prerequisites: CHD 3220; FAD 2230, 3220, and twelve (12) semester hours in the major. Corequisites: CHD 4225, 4250; FAD 4229, 4265. This course is designed to provide students with experience in a community setting serving children, families, and/or adults. These experiences will provide students with opportunities to relate class materials with the work environment of child and family services and to develop basic intervention skills.

FAD 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of nine (9) semester hours.

FAD 4936r. Special Topics: Family or Housing (3–9). Each topic may be taken only once. Permission of the instructor required. May be repeated to a maximum of nine (9) semester hours.

Family and Consumer Sciences Education

HEE 3103. Philosophy and Methods of Teaching Home Economics (3). Coordination of goals, methods, and media and organization of instructional materials and resources. Developing a philosophy of home economics teaching. Observations-participation required.

HEE 4054. The Educative Process (3). Planned for human sciences majors who need preparation for teaching in special situations. Not open to family and consumer sciences education majors.

HEE 4150. Teaching-Learning Process in Home Economics Education (3). Pre- or Corequisite: HEE 3103. Educational and behavioral objectives, lesson plans, teaching techniques, motivation, and microteaching experiences. Observation-participation required.

HEE 4171. Teaching Independent Living Skills (3). Selected subject matter and teaching methods applicable to improving independent living for special needs populations throughout the life span. Clinical experience.

HEE 4300. Curriculum Development in Home Economics (3). Prerequisite: HEE 3103; Corequisite: HEE 4150. Scope, sequence, concepts, generalizations, learning experiences, evaluative processes, media, and resources related to curriculum development.

HEE 4343. Methods of Developing Functional Programs in Home Economics (3). Adaptation of curriculum and resource materials for teaching students with special needs and development of occupational home economics programs. Clinical experience.

HEE 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of four (4) semester hours.

HEE 4941. Student Teaching (1–2). (S/U grade only.) Field experience in the teaching of vocational home economics.

Graduate Courses

Child Development Courses

- CHD 5266. Advanced Child Development (3).
 CHD 5906r. Directed Individual Study (1–3). (S/U grade only.)
 CHD 5912r. Supervised Research (1–3). (S/U grade only.)
 CHD 5940r. Practicum in Child Development: Varied Ages (infancy, preschool, school-age) (3–9).
 CHD 5942r. Supervised Teaching (1-3). (S/U grades only.)
 CHD 6261. Theories of Child Development (3).
 CHD 6930r. Seminar in Child Development: Topics Vary and/or Ages Vary (prenatal, infancy, preschool, school-age through adolescence) (3–9).

Family Relations Courses

- FAD 5261. Families in Crisis (3).
 FAD 5481r. College Teaching in Family Sciences (2–3). (S/U grade only.)
 FAD 5666. Theories in Marital and Family Therapy (3).
 FAD 5900r. Readings in Family and Child Sciences (3).
 FAD 5906r. Directed Individual Study (1–3). (S/U grade only.)
 FAD 5912r. Supervised Research (1–3). (S/U grade only.)
 FAD 5934r. Seminar in Family and Child Sciences (3–9).

- FAD 5942r. Supervised Teaching (1–3). (S/U grade only.)
 FAD 5944r. Internship-Family/Child (1–12).
 FAD 5970. Special Project (3). (S/U grade only.)
 FAD 6260. Family Development and Interaction (3).
 FAD 6660. Professional Studies in Marital and Family Therapy (3).
 FAD 6661. Divorce and Post-Divorce Counseling (3).
 FAD 6662. Systems Evaluation: Assessment Intervention and Case Planning (3).
 FAD 6667. Sex Therapy (3).
 FAD 6917. Methods of Research (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).

Family and Consumer Sciences Education Courses

- HEE 5160. Methods and Media in Home Economics Education (3).
 HEE 5340. Home Economics Program Development (3).
 HEE 5347r. International Home Economics (1–3).
 HEE 5450. Educational Measurements and Evaluation (3).
 HEE 5560. Supervision of Home Economics (3).
 HEE 5651. History and Philosophy of Home Economics (3).
 HEE 5900r. Readings in Home Economics Education (3–12).
 HEE 5905r. Directed Individual Study (1–3). (S/U grade only.)
 HEE 5911r. Supervised Research (1–4). (S/U grade only.)
 HEE 5915. Methods of Research (3).
 HEE 5935r. Special Topics in Home Economics Education (1–6). (S/U grade only.)
 HEE 5942r. Supervised Teaching (1–4). (S/U grade only.)
 HEE 6180. College Teaching of Home Economics (3).
 HEE 6936r. Home Economics Research Seminar (1–3).

The Department of Family and Child Sciences through the programs in family relations, child development, and family and consumer sciences education offers graduate programs leading to the master of science (MS) degree in the respective areas and the doctor of philosophy (PhD) degree in human sciences. For further information relating to graduate course work, and thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

**FILM STUDIES:
 see Motion Picture, Television,
 and Recording Arts**

Department of FINANCE

COLLEGE OF BUSINESS

Chair: Donald A. Nast; *Professors:* Ang, Brown, Celec, Clark, Coats, Humphrey, Nosari, Osteryoung, D. Peterson, P. Peterson, Turner; *Associate Professors:* Benesh, Christiansen, Nast, Scott; *Assistant Professors:* Cheng, Nelson; *Service Professor:* Brown; *Visiting Assistant Professor:* Inci; *Fannie Wilson Smith Eminent Scholar in Banking:* Humphrey; *Bank of America Eminent Scholar in Finance:* Ang; *SunTrust/Tallahassee Professor of Finance:* Nast; *First Union Professor of Finance:* D. Peterson; *Jim Moran Professor of Entrepreneurship:* Osteryoung; *Charles A. Bruning Professor of Business Administration:* Nosari

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.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. Specific prerequisites are required for admission into the upperdivision 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upperdivision degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements

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 (120) semester hours. Normally, four semesters of work are devoted to the Liberal Studies 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 (18) 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 course 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 a finance major, students must meet the admission requirements of 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 five 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).

MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements for Finance Majors:

All finance majors must complete five courses as follows. Each course selected 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).

Plus three (3) electives from the following list of courses:

HFT	3240	Managing Service Organizations (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements for Finance Majors:

All finance majors must complete six courses (eighteen [18] semester hours) as listed below. 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.

ACG	3171	Analysis of Financial Statement Presentation (3).
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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).
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Note: the two course sequence, ACG 3341 (Cost Accounting I) and ACG 3351 (Cost Accounting II), may be substituted for ACG 3331.

FIN	4424	Problems in Financial Management (3).
FIN	4504	Investments (3).

Plus two (2) electives from the following list of courses:

FIN	4324	Commercial Bank Administration (3).
FIN	4329	Current Issues in Banking (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	4934r	Senior Seminar in Finance (3).
REE	4204	Real Estate Finance (3).

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 Program 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). 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; ECO 2013. Study of the money and capital markets, financial institutions, financial systems, and financial environment including international finance. Emphasizes the microfinancial decision-making process of the business firm.

FIN 3403. Financial Management of the Firm (3). Prerequisites: ACG 2021; ECO 2023. 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.

Business Majors Only

FIN 4324. Commercial Bank Administration (3). Prerequisites: FIN 3403, 3244. 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 4329. Current Issues in Banking (3). Prerequisites: FIN 3244, 3403. An examination of current and topical issues in banking that are important for policy formation and the future of the banking industry.

FIN 4412. Short-Term Financial Management (3). Prerequisites: FIN 3244, 3403. 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: FIN 3244, 3403. An advanced study of financial management that relates the underlying principles of finance to the decision-making perspective of the financial manager. Selected topics include cash budgeting, working capital management, capital budgeting, risk analysis, valuation, long- and short-term financing, dividend decision, and financial forecasting. Case analyses are included.

FIN 4453. Financial Modeling and Forecasting (3). Prerequisites: FIN 3403; QMB 3200. An introduction to financial modeling and forecasting. Emphasis is on computer models and forecasting financial variables.

FIN 4504. Investments (3). Prerequisites: FIN 3403, 3244; STA 3014. 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). Prerequisite: FIN 4504. An advanced and comprehensive coverage of investment topics including bond analysis, stock options, commodities, interest rate futures, options on futures contracts, portfolio analysis and management, and security market efficiency.

FIN 4604. Multinational Financial Management (3). Prerequisites: FIN 3403, 3244. 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 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 (5) 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: FIN 3403, 3244. May be repeated to a maximum of nine (9) semester hours as topics vary. Additional prerequisites may be required depending on the topic.

FIN 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine (9) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

Graduate Courses

ECP	5705.	Economic Concepts for Business Decisions (3).
ECP	5706.	Economic Analysis for Management (3).
FIN	5314.	Administration of Financial Institutions (3).
FIN	5445.	Problems in Financial Management (3).
FIN	5515.	Investment Management and Analysis (3).
FIN	5605.	Multinational Financial Management (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	5946r.	Supervised Teaching (1–3). S/U grade only.)
FIN	6449.	Seminar in Finance (1–3).
FIN	6527.	Seminar in Finance (1–3).
FIN	6709.	Seminar in Finance (1–3).
FIN	6808.	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	5446.	The Business Context (3).
MAN	5716.	Business Conditions Analysis (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

FINANCE:
see also **Multinational Business Operations**

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**

Department of GEOGRAPHY

COLLEGE OF SOCIAL SCIENCES

Chair: Barney Warf; *Professors:* Kodras, O'Sullivan, Warf; *Associate Professors:* Baker, Elsner; *Assistant Professors:* Leib, Savitsky, Steinberg, Jacobson

The Department of Geography offers two separate majors reflecting the discipline's position straddling the social and natural sciences: the geography major and the interdisciplinary environmental studies major. While these programs overlap to some extent, they differ in their substantive focus: the geography major is oriented to social, economic, and political concerns, while the environmental studies major revolves more explicitly around human interactions with the natural, physical, and biological environment, with a stronger interdisciplinary focus. Students may double major in geography and environmental studies; a maximum of ten (10) semester hours may be double-counted toward both majors.

Several career paths await the graduating geographer in the public and private sectors. Geographers bring important knowledge and analytical techniques to resource management and planning agencies. Their training enables geographers to determine where public facilities and infrastructure are best located so that the greatest number of people benefit. These skills are also valued by private firms investing in residential or commercial development; a geographer can pinpoint where investments are likely to yield the best returns. Geographers fill such job titles as cartographer, intelligence officer, economic analyst, and soil conservationist. Another field is metropolitan and regional planning, in which geographers are engaged in monitoring environmental problems, land use changes, waste disposal, housing, transportation patterns, and poverty. Geographers in private business are involved in industrial location research, marketing, planning for utility companies, environmental and site location consultants, real estate firms, port and airport authorities, travel agencies, and in transportation planning for airlines or trucking firms. Many institutions use geographic information systems (GIS), and consulting firms serving state and local governments are increasingly called on to provide GIS expertise. The College of Social Sciences has a geographic information systems laboratory with several microcomputers running GIS, remote sensing, and statistical software. Finally, geographers find many jobs as teachers in a world integrated to the point that an understanding of geographic differences is essential to a basic education.

The geography department has expertise in the two areas of human geography and environmental problems. Students can concentrate in one of these areas but the natural linkages between them mean that courses in both are necessary for a complete geographical education. In human geography, faculty interests cover a number of interrelated topics, including global power relationships; the terrain tactics of war; social problems such as poverty and residential segregation, and the im-

pact of policies designed to alleviate them; and the spatial structure of services, telecommunications, and international trade. The faculty also focuses on a number of environmental and resource issues, including the impacts of natural hazards such as hurricanes, the causes and effects of deforestation, and the development of policies to solve these and similar problems.

State of Florida Common Course Prerequisites

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The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. Two introductory courses (six [6] semester hours) in geography with the GEO prefix.

Geography Major

Geography is an integrative discipline bridging the social sciences, physical sciences, and humanities in the study of the relations between human beings and the earth. Geography is fundamentally the study of space, much as history is the study of time. Why phenomena and events occur where they do, and the ramifications they have for other places and cultures, are essential geographic questions. Within this framework, geographers examine such issues as the linkages between international development and environmental conservation, the opportunities and problems associated with growth in Florida, the geographic bases of religious and linguistic conflicts, and the implications of economic restructuring on regional power balances, deforestation, and hunger. The value of a geographic perspective is that such issues become more than isolated events when they are given theoretical grounding and are placed in a broader context of global understanding. In an interdependent world where decisions made in one country affect the lives of people in all societies, responsible world citizenship requires a solid foundation in geographic knowledge.

Major Requirements

A geography major consists of thirty (30) semester hours, including GEO 1400, 3140, 3200C, 3540, and 4162C. No geography course with a grade below "C" will apply toward completion of the major. As part of the required (30) semester hours, the student must take at least six (6) semester hours of courses at the 4000 level (excluding GEO 4162C). A maximum of three (3) semester hours of GEO 4905r, Directed Individual Study (DIS) internship will be credited toward the major.

Requirements for Minor

A geography minor consists of twelve (12) semester hours of course work in geography (including GEO 1400) completed with a grade of "C" or better.

For more information contact Dr. Basil Savitsky, Undergraduate Advisor, *Department of Geography, 321 Bellamy, (850) 644-8377, bsavitsk@mail.fsu.edu* or visit our website at <http://www.fsu.edu/~geog>.

Major in Environmental Studies

Environmental Studies is an interdisciplinary program of study that provides an in-depth understanding of the social and institutional context of contemporary environmental concerns, including topics such as ecosystem management, resource conservation, land use planning, natural hazards, and the policy dimensions of environmental issues. The major in environmental studies requires forty-one (41) semester hours with a grade of "C" or better in each course; at least eighteen (18) semester hours must be taken in upper level (3000- and 4000-) courses.

Note: some of the following courses have prerequisites.

I. Core Curriculum: All of the following courses (total of fourteen (14) semester hours):

BSC	2010	Biological Science I and BSC 2010L Biological Science I Laboratory (CHM 1045C is prerequisite)
CHM	1045C	General Chemistry I and CHM 1045L General Chemistry I Laboratory
GEO	1331	Environmental Science
GEO	3200C	Physical Geography

II. Natural Science Electives: Four courses (total of twelve [12] credit hours) from the following list:

BSC	2011	Biological Science II
BSC	3052	Conservation Biology
BSC	3312	Marine Biology
BSC	4514	Aquatic Pollution Biology
BSC	4934	Selected Topics in Applied Biology*

* Content of these courses varies. Please consult the environmental studies advisor for applicability.

CHM	1046C	General Chemistry II
ENV	4001	Environmental Engineering
ENV	4041	Environmental Systems Analysis
ENV	4341	Solid and Hazardous Waste Engineering
GEO	4261C	Soils and Landforms
GEO	4930	Special Topics in Geography*
GLY	1892	Environmental Issues in Geology
GLY	2010C	Physical Geology
GLY	4700C	Geomorphology
GLY	4820	Principles of Hydrology
ISC	2003	Global Change, Its Scientific and Human Dimensions
MET	2700	General Meteorology
OCE	4011	Principles of Oceanography
OCE	4017	Current Issues in Environmental Science
OCE	4930	Studies in Oceanography*
PCB	3043	General Ecology
URP	4401	Coastal Ecosystems, Environmental Issues and Coastal Zone Management

III. Social Science Electives: Three of the following courses (total of nine [9] semester hours):

ECP	3113	Economics of Population
ECP	3302	Economics of Natural Resources, Energy, and the Environment
ECP	3322	Economics of Living Marine Resources
GEO	4340	Living in a Hazardous Environment
GEO	4357	Environmental Conflict and Economic Development
GEO	4372	Natural Resource Assessment and Analysis
GEO	4930	Special Topics in Geography*
GEO	3540	Economic Geography
GEO	4471	Political Geography
GEO	4602	Urban Geography
HIS	4930	Special Topics in History*
PAD	3003	Public Administration in American Society
PAD	4603	Administrative Law
PUP	3002	Introduction to Public Policy
PUP	4203	Environmental Politics and Policy
SYD	3020	Population and Society
URP	3000	Introduction to Planning and Urban Development
URP	4022	Collective Decision Making
URP	4314	Introduction to Growth Management and Comprehensive Planning
URP	4423	Environmental Planning and Resource Management
URP	4710	Introduction to Transportation Issues and Transportation Planning
URP	4936	Special Topics in Urban and Regional Planning

* Content of these courses varies. Please consult the environmental studies advisor for applicability.

IV. Methods Electives: Two of the following courses (total of six [6] semester hours):

ENV	4611	Environmental Impact Analysis
GEO	3040	Map Analysis
GEO	4162C	Spatial Data Analysis (or equivalent)
GEO	4151	Geographic Information Processing and Systems
GEO	4184	Computer Cartography
GEO	4930	Special Topics in Geography

Minor in Environmental Studies

A minor in environmental studies consists of twenty-three (23) semester hours, including Group I (total of [14] semester hours) and one course each from Groups II, III, and IV (total of nine [9] semester hours). All courses must be completed with grades of "C" or better.

For more information, contact Dr. Basil Savitsky, Undergraduate Advisor, (850) 644-8377 or bsavitsk@mailers.fsu.edu, or visit the department's website at <http://www.fsu.edu/~geog>.

Graduate Programs

Graduate programs are available leading to the master of arts (MA) and master of science (MS) degrees, and the PhD in geography. The graduate program in geography leads to a research-oriented degree centered around two intellectual foci corresponding to the faculty's expertise: environmental management and social systems analysis.

Undergraduates contemplating a graduate degree in geography should take the Graduate Record Examination prior to submitting an application. Interested students should contact the Graduate Advisor, Dr. Jonathan Leib, at (850) 644-8375, or jleib@cosss.fsu.edu.

Definition of Prefixes

GEA	—	Regional Geography
GEO	—	Systematic Geography

Undergraduate Courses

GEA 1000. World Geography (3). A regional survey of the human occupation of the face of the earth, local cultures, political systems, and development problems.

GEO 1331. Environmental Science (3). The causes of local and global environmental problems and their impacts, including resource use, pollution, ecosystems, and population growth.

GEO 1400. Human Geography (3). Introductory survey of world cultures, population problems, global economic restructuring, international development, and political interdependence.

GEA 2210. United States and Canada (3). The physical diversity and the cultural and political patterns of North America.

GEA 2270. Florida (3). The physical, social, and economic geography of the state, including growth, and environmental issues.

GEA 3173. Third World in Film (3). Weekly feature films are used to investigate how the Third World is constructed as a distinct region, how its physical geography has influenced

its history, cultural systems, and development prospects, and how residents have attempted to redefine the concept of "development."

GEA 3704. East and Southeast Asia (3). Survey of the societies of East and Southeast Asia, including their historical development, cultural diversity, linkages to the world economy, and current socio-political structures.

GEO 3040. Map Analysis (3). An introduction to the acquisition, processing, and presentation of cartographic data.

GEO 3200C. Physical Geography (3). An overview of Earth-sun relations, weather, climate, landforms, water systems, soils, and vegetation.

GEO 3423. Sports Geography (3). 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 3540. Economic Geography (3). The geography of economic activity at local, national and global scales: regional development, spatial structure of agriculture, manufacturing and services, the global economy, third world poverty, and population growth.

GEO 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

GEA 4400. Latin America (3). The contemporary Latin American landscape, its historical formation, societies and problems.

GEA 4500. Europe (3). Europe's terrain, variety of cultures, economies, and recent trends toward unity.

GEA 4520. Britain and Ireland (3). The physical and human geography of the United Kingdom and Ireland.

GEA 4554. Russia and Southern Eurasia (3). The peoples, cultures, and places of the former Soviet Union. Discusses the region's natural environment, historical development, and contemporary politics.

GEO 4151. Geographic Information Processing and Systems (3). Prerequisites: CGS 2060; GEO 3140; or consent of instructor. Survey of GIS topics, including locational control, spatial data structures, modeling and analysis, and future trends in decision support, sensors, and geographic methods.

GEO 4162C. Spatial Data Analysis (3). Introduction to quantitative analysis of spatial data including measures of central tendency and dispersion, probability, sampling, statistical testing, correlation, point pattern analysis, and trend surface analysis.

GEO 4184. Computer Cartography (3). Examination of computer mapping systems, theory, methodology, and applications.

GEO 4261C. Soils and Landforms (3). Hydraulic and geomorphological processes, and soils types and management.

GEO 4340. Living in a Hazardous Environment (3). Types of environmental hazards (natural and human-made) and their effects, techniques for the analysis of risks, strategies for recovering losses.

GEO 4357. Environmental Conflict and Economic Development (3). Examines controversies over the use, transformation, and destruction of nature, including political ecology.

GEO 4372. Natural Resource Assessment and Analysis (3). Assessment and analysis of policies concerning natural resources and environmental management in the U.S. and internationally.

GEO 4403. Global Change, Local Places (3). Students examine four aspects of global change—economic, environmental, cultural, and political—with a focus on how globalization is impacting individual countries and how individual places are responding to globalization's challenges.

GEO 4420. Cultural Geography (3). The study of the processes by which various cultural features have diffused throughout the world. Emphasis is on the contemporary cultural landscape.

GEO 4450. Medical Geography (3). Prerequisites: GEO 1400, 4185C. Applies geographical concepts and techniques to health-related problems, including the ecology of health, disease diffusion, medical cartography, and health care access.

GEO 4460. Historical Geography (3). Concepts, approaches, and research methods for analysis of spatial patterns of the past and changes through time.

GEO 4471. Political Geography (3). The spatial dimensions of political processes from the local to the global level, including elections and geopolitics of the world system.

GEO 4480. Military Geography (3). The geography of warfare; tactics and terrain, strategy and the theater of war, insurgency, war in cities, geopolitics and grand strategy.

GEO 4602. Urban Geography (3). 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 4905r. Directed Individual Study (1–5). May be repeated to a maximum of nine (9) semester hours.

GEO 4930r. Special Topics in Geography (3). May be repeated to a maximum of nine (9) semester hours.

GEO 4932. Honors Work (1–6). May be repeated to a maximum of nine (9) semester hours.

GEO 4941r. Internship (3–6). Provides students with an opportunity to apply skills in supervised situations off-campus. Course may be repeated to a maximum of six (6) semester hours. Only three (3) may be counted toward the major.

Graduate Courses

GEO	5195r.	Advanced Area Studies (3).
GEO	5056.	Social Theory and Spatial Structures (3).
GEO	5058.	Survey of Geographic Thought (3).
GEO	5118C.	Introduction to Geographical Research (3).
GEO	5157.	Advanced Geographic Information Systems (3).
GEO	5159.	Geographic Information Processing and Systems (3).
GEO	5165C.	Quantitative Geography (3).
GEO	5262C.	Soils and Landforms (3).
GEO	5287.	Water Resource Analysis (3).
GEO	5345.	Disaster Preparedness and Hazards Mitigation (3).
GEO	5358.	Environmental Conflict and Economic Development (3).
GEO	5377.	Natural Resource Assessment and Analysis (3).

GEO	5425.	Cultural Geography (3).
GEO	5465.	Historical Geography (3).
GEO	5472.	Political Geography (3).
GEO	5481.	Military Geography (3).
GEO	5545.	Advanced Economic Geography (3).
GEO	5555.	World Systems Theory (3).
GEO	5605.	Urban Geography (3).
GEO	5908r.	Directed Individual Study (1–5).
GEO	5918r.	Supervised Research (1–3). (S/U grade only.)
GEO	5934r.	Seminar in Current Topics (3).
GEO	5947r.	Supervised Teaching (1–3). (S/U grade only.)
GEO	6980r.	Dissertation (1–9). (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*.

Department of GEOLOGICAL SCIENCES

COLLEGE OF ARTS AND SCIENCES

Chair: Neil Lundberg; *Professors:* Cowart, Furbish, Loper, Lundberg, Odom, Tull, Wise, Zindler; *Associate Professors:* Arnold, Donoghue, Kish, Parker, Salters; *Assistant Professors:* Schmeckle, Streepey, Wang; *Visiting Assistant Professor:* Fagherazzi; *Curator:* Janecek; *Courtesy Professor:* Schmidt; *Professors Emeriti:* DeVore, Osmond, Tanner, Winters

The Department of Geological Sciences offers undergraduate work for both majors and minors leading to the bachelor of science (BS) degree. 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 course work in many areas of surficial, tectonic, and stratigraphic geology 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 the Department of Geological Sciences, with the Florida Geological Survey of the Florida Department of Environmental Protection (next door), 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 Program and Honor Societies" chapter of this *General Bulletin*.

State of Florida Common Course Prerequisites

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The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. CHM 1045/1045L or CHM 1040 and CHM 1041 or CHM 1045C or CHM 1045E;
2. CHM 1046/1046L or CHM 1046C or CHM 1046E;
3. GLY 2010C;
4. MAC 2311;
5. PHY 2048C or PHY 2048/2048L*;
6. PHY 2049C or PHY 2049/2049L*;
7. PHY 2053C*;
8. PHY 2054C.

A course in historical geology is **strongly** recommended.

Note: (*) the choice of physics sequence depends on the area of geology specialization. Contact department for details.

Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Major

A minimum of thirty-eight (38) semester hours of geology, as specified below and including an elective course chosen from among senior-level and graduate-level geology courses. A major will also include one year each of chemistry with labs, physics and labs, and calculus. No geology or required chemistry, physics, or mathematics course with a grade below "C–" will apply. Based on the recommended series of chemistry, physics, and calculus courses, a candidate for the degree of bachelor of science (BS) in geology is required to successfully complete the following courses in addition to other coursework required by the College of Arts and Sciences:

MAC	2311	Calculus with Analytic Geometry I (4)
MAC	2312	Calculus with Analytic Geometry II (4)
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 (2)
PHY	2048C	General Physics A with Laboratory (5)
PHY	2049C	General Physics B with Laboratory (5)
GLY	2010C	Physical Geology (4)
GLY	2100	Historical Geology (3)

GLY	2100L	Historical Geology Laboratory (1)
GLY	3200C	Mineralogy and Crystallography (3)
GLY	3220C	Optical Mineralogy (2)
GLY	3310C	Igneous and Metamorphic Petrology (3)
GLY	3340C	Sedimentary Petrography (2)
GLY	3400C	Structural Geology (4)
GLY	3610C	Paleontology (4)
GLY	4511	Principles of Stratigraphy (3)
GLY	4750	Geological Field Methods (1)
GLY	4790	Field Course (6)
GLY	4XXX	Geological Elective (2)

GLY 4790 requires the expenditure of approximately \$1,400 by each student to cover the cost of travel and subsistence in the field. This amount excludes tuition. Students are expected to participate in field assignments which may require occasional physically strenuous effort.

It is recommended that students intending to transfer to The Florida State University for their junior and senior years' work in geology complete one year of college chemistry before transferring in order to avoid delays in their program of studies.

Minor

The required chemistry-mathematics combination may constitute a minor, or the student may select any other approved minor.

Requirements for a Minor in Geological Sciences

A minor in geological sciences requires a minimum of twelve (12) semester hours, including: GLY 1000 and GLY 1000L or GLY 2010C; GLY 2100; GLY 2100L. At least four (4) semester hours must be at the GLY 3000 level or above.

Definition of Prefix

GLY — Geological Sciences

Undergraduate Courses

ISC	2937.	Natural Science Honors Seminar (3).
ISC	3121.	Science, Technology, and Society (3).
PSC	2800C.	Earth Science for EC/EE Teachers (4).
SCE	4939r.	Seminar in Contemporary Science, Mathematics, and Science Education (1).

Note: for complete descriptions of the above courses, see interdisciplinary science courses listed in the "College of Arts and Sciences" chapter of this *General Bulletin*.

GLY 1000. Dynamic Earth (3). 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 1892 or 2010C.

GLY 1000L. Dynamic Earth Laboratory (1). Pre- or Corequisite: GLY 1000 or 1892. Two (2) hour laboratory study of minerals, rocks, maps.

GLY 1040. How to Build a Habitable Planet (3). This course provides students with an overview of the origin of the Earth within the context of the cosmos, the processes that have shaped the planet over the eons, and our stewardship of the fragile and magnificent environment we have inherited. Focus is centered upon the development of conceptual knowledge and upon applying the scientific method to the understanding of our planet.

GLY 1042. Planetary Geology (3). Introduction to the basic geological processes that apply to the planets and moons of the solar system. Observational evidence from spacecraft and earth-based sensors of the surfaces, dynamics, structures, and geologic evolution. The Earth-moon system is presented as a basis for comparison.

GLY 1070. Living on the Water Planet (3). This course provides students with an overview of the basic physics and chemistry of water and the processes that control water supply to natural ecosystems and to human civilization. It covers the hydrologic cycle, floods, drought, groundwater, patterns of water use, threats to water quality, the effects of global climate change on future water supplies, and water issues facing the state of Florida.

GLY 1102. Dinosaurs and Disasters on an Evolving Earth (3). 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 1892. Environmental Issues in Geology (3). 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 2010C. Physical Geology (4). For majors in geology and natural sciences. Two (2) hour laboratory required. Introduction to surficial and internal processes affecting a dynamic planet Earth. Course credit may not be received for this course and also GLY 1000 or 1892.

GLY 2022C. Geology for Pre-service and In-service Teachers (4). Introduction to geology with emphasis on adapting techniques, skills, and technologies learned in classes/labs for use in the secondary/elementary classroom. Topics include environmental geology, planetary geology, plate tectonics, earthquakes, volcanism, natural resources, the geology of Florida, plus the evolution of the planet and life on it.

GLY 2100. Historical Geology (3). History of the Earth and introduction to the fossil record. Course credit may not be received for this course and also GLY 1102.

GLY 2100L. Historical Geology Laboratory (1). Prerequisite or Corequisite: GLY 1102 or 2100. Laboratory study of the physical and biological evidence for the known history of the earth.

GLY 3200C. Mineralogy and Crystallography (3). Pre- or Corequisite: chemistry and physical geology. Three (3) hour laboratory required. Introduction to mineralogy, crystal chemistry, and crystallography.

GLY 3220C. Optical Mineralogy (2). Corequisite: GLY 3200C. Three (3) hour laboratory required. The optical properties of crystals and mineral identification by use of the polarizing microscope.

GLY 3310C. Igneous and Metamorphic Petrology (3). Prerequisite: GLY 3220C. Three (3) hour laboratory required. Classification, description, and origin of igneous and metamorphic rocks; relation of these rocks to tectonic processes.

GLY 3340C. Sedimentary Petrography (2). Prerequisite: GLY 3220C. Survey of sedimentary rock types, principles of description and classification, sediment genesis and transport, distribution and origin of sedimentary deposits.

GLY 3400C. Structural Geology (4). Prerequisites: GLY 2100, 2100L, 3200C. Field trip is required. Theory, processes, mechanics of rock deformation and the deformation of the Earth's crust.

GLY 3610C. Paleontology (4). Prerequisites: GLY 2100, 2100L. Review of invertebrate biology, with emphasis on hard-part nomenclature; the occurrence, distribution, evolution, and ecology of fossil invertebrates.

GLY 4240. Principles of Geochemistry (2). Prerequisites: GLY 2010C; basic chemistry. 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; PHY 2049 or consent of instructor. 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 4511. Principles of Stratigraphy (3). Prerequisite: GLY 3340C. Analysis and synthesis of stratigraphic sequences. Depositional systems; physical and biostratigraphy; geochronology and chronostratigraphy; magnetic, seismic, and sequence stratigraphy; tectonic vs. climatic controls. Term paper required.

GLY 4551. Sedimentology (2). Prerequisite: GLY 3200C. Study of modern and ancient sedimentary deposits, measurement of sediment parameters, analysis of sediment transport modes, classification of sediments and sedimentary rocks, statistical reduction of sedimentologic data. Field trip required. Students concentrating in sedimentary geology are strongly urged to take the laboratory GLY 4551L concurrently.

GLY 4551L. Laboratory Methods in Sedimentology (1). Laboratory in standard sedimentologic methods, including textural analysis, heavy mineral separation and identification, carbonate staining, X-ray diffractometry, and statistical reduction of sedimentologic data. May be taken separately, but students concentrating in sedimentary geology should take GLY 4551L concurrently with 4551.

GLY 4700C. Geomorphology (3). Prerequisite: Senior standing. An introduction to the description of landforms and landscapes on 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 4730. Marine Geology (3). Shoreline, shelf and deep ocean processes; marine sediment types and sedimentary environments; plate tectonics; origin of the ocean; paleoceanography; marine mineral resources. Includes research methods cruise for familiarization with marine geologic sampling and sensing devices. Credit received for GLY 4730 precludes credit being received for GLY 5736 or OCG 5050.

GLY 4750. Geological Field Methods (1). (S/U grade only.) Corequisite: GLY 3400C. Provides a working knowledge and some experience of techniques, procedures, and tools which 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; PHY 2049. Course covers 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, 4750. Series of field problems based largely on exposures of strata and structures. Preparation of geologic maps, sections, and reports. Six weeks in May and June.

GLY 4812C. Ore Deposits (3). Prerequisites: GLY 3310C, 3400C. 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; PHY 2049C. Fundamentals of hydrogeology with an emphasis on groundwater flow and hydrochemistry. Both theory and applications are addressed.

GLY 4884. Environmental Geology I (3). The application of geologic and geochemical principles to environmental issues. Topics include: an evaluation of contaminants in surface water; hydrocarbon geochemistry and petroleum storage tank problems; 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 (3). May be repeated to a maximum of nine (9) semester hours.

GLY 4915r. Undergraduate Research (2–8). (S/U grade only.) Projects in geological science arranged in advance between the student and a member of the teaching faculty of the department. May not be used to fulfill senior elective requirement. May be repeated to a maximum of eight (8) semester hours.

GLY 4917. Senior Thesis (1). (S/U grade only.) Prerequisite: GLY 4915r. A written report and an oral presentation discussing research work done under GLY 4915r. The grade is assigned by a committee of three faculty members.

GLY 4989r. Honors Work (1–6). May be repeated to a maximum of nine (9) semester hours.

Graduate Courses

GLY 5020r. Current Topics in Earth Science (3).
 GLY 5021r. Current Topics in Earth Science (3).
 GLY 5135. Quaternary Geology (3).
 GLY 5230C. X-Ray Crystallography (3).
 GLY 5261. Geochronology (2).
 GLY 5265. Nuclear Geology (3).
 GLY 5267. Stable Isotopic Tracers in the Environment (3).
 GLY 5295r. Advanced Topics in Nuclear Geology (1–3).
 GLY 5298r. Advanced Topics in Geochemistry (1–3).
 GLY 5321C. Igneous Petrology (4).
 GLY 5346. Sedimentary Petrology (3).
 GLY 5395r. Advanced Topics in Petrology (1–3).
 GLY 5425. Tectonics (3).
 GLY 5435. Advanced Structural Geology (3).
 GLY 5455. Introduction to Geophysics (3).
 GLY 5465. Geomechanics (3).
 GLY 5495. Advanced Topics in Geophysics (3).
 GLY 5497r. Advanced Topics in Structural Geology (1–3).
 GLY 5516. Stratigraphy and Sequence Analysis (3).

GLY 5556. Hydrodynamics (3).
 GLY 5573. Fluvial Processes (3).
 GLY 5575. Coastal Geology (3).
 GLY 5576. Stratigraphy and Sediments of Transitional Marine Environments (3).
 GLY 5577. Sedimentary Basin Analysis (3).
 GLY 5624C. Introduction to Micropaleontology (3).
 GLY 5625C. Advanced 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 5735. Nearshore Marine Geology (2).
 GLY 5736. Marine Geology (3).
 GLY 5756. Advanced Field Methods (1).
 GLY 5757C. Fundamentals of Remote Sensing, Air Photo Interpretation and GIS for the Earth Sciences (4).
 GLY 5825. Physical Hydrology (3).
 GLY 5826. Numerical Modeling of Groundwater Flow (3).
 GLY 5827. Principles of Hydrology (3).
 GLY 5828. Chemical Hydrology (3).
 GLY 5845. Subsurface Geology (3).
 GLY 5868r. Advanced Topics in Sedimentation and Stratigraphy (1–3).
 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 (3). (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 course work 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: *Aging and Public Policy, The Pepper Institute on*

GREEK: see *Classical Languages, Literature, and Civilization*

GROWTH MANAGEMENT AND COMPREHENSIVE PLANNING: see *Urban and Regional Planning*

HEALTH EDUCATION: see *Middle and Secondary Education*

HEALTH-RELATED PROGRAMS

Numerous health-related programs at The 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, and (in some instances) certification, opportunities for students. For more detailed information and requirements, see individual program listings in this *General Bulletin*.

Pepper Institute on Aging and Public Policy

The Pepper Institute on Aging and Public Policy has a multidisciplinary focus and plays a coordinating and facilitative role for the work of all academic units with interests in aging and social policy. As part of the Certificate in Aging Studies, the Pepper Institute promotes several courses

in health care policy, adult development and aging, and health care delivery systems. The resources of the institute are used to support individual or collaborative research initiatives by providing technical assistance or a location for conducting research. The institute facilitates and disseminates research information; provides opportunities for training and study; and sponsors conferences, public lectures, workshops, and symposia to promote the discussion of issues germane to the aging process and to share information with policy makers, professionals, and the community about the elderly and aging issues. Through the College of Social Sciences, the institute now offers a Master's Degree in Aging Studies.

Department of Communication Disorders

The Department of Communication Disorders has a major in communication sciences and disorders and offers bachelor's, master's, advanced master's, and doctoral degrees. The scope of the department includes the whole of human communication, both normal and disordered. Students

learn the total processes of communication, develop analytical and communicative skills, and obtain experience in evaluation, treatment, and research. For information contact commdis.info@comm.fsu.edu or (850) 644-2253.

Health Education Program

The health education program includes teacher certification or community health education and leads to either a bachelor of science (BS) or a master of science (MS) degree. This program is designed to prepare health educators to assist individuals in achieving an optimal level of health, to prevent disease and debilitating conditions from occurring, and to minimize the impact of such diseases and conditions upon individuals who have been affected. With a degree in health education, an individual may choose from such practice settings as the school system, business and industry, community agencies, and governmental and tax-supported agencies, as well as the medical care systems.

Health Policy Research

This interdisciplinary master's program prepares researchers to work with health care data in public or private sector positions. Students learn to organize, evaluate, and manage information. In addition, they develop analytical skills in evaluation and research using electronic information systems for the analysis of state and national health issues. The program admits students with a minimum of a baccalaureate degree in any field from an accredited institution. Degree requirements of thirty-six (36) semester hours include coursework, internship and the production of a research paper. For information contact the Interdisciplinary Studies Center in the College of Social Sciences, 211 BEL, (850) 644-4418.

Interdisciplinary Curriculum in Health Services Administration and Policy

The graduate-level interdisciplinary curriculum in health services administration and policy is organized to train managers, policymakers, and researchers who will be able to respond to and help shape the rapidly changing health care arena.

The interdisciplinary curriculum draws upon faculty interest and expertise in health services administration and policy from throughout the University, including faculty from business, economics, law, public administration and policy, sociology, social work, urban and regional planning, geography, and education. The program consists of three core courses and nine electives that students can choose from. The three core courses—health administration and policy, health institutions and social policy, and health care finance—provide students with the fundamental knowledge and skills required for any future work within health care policy and administration. Students choose from a range of additional courses to build upon this core. Specific degree programs may require or allow additional courses. Depending upon a student's choice of electives, the program will emphasize either policy or administration.

School of Nursing

The School of Nursing offers a bachelor's and a master's degree program. The mission of the School of Nursing is to develop professional leaders in nursing for practice in diverse settings. A separate RN/BSN completion program, leading to a baccalaureate degree or directly into the master's program, is available on campus or online. Information regarding undergraduate programs is available from the advising office at (850) 644-5170. Graduates of the baccalaureate pro-

gram are prepared for beginning levels of professional practice in a variety of settings. Graduates of the master's program are prepared for advanced professional positions in nursing education, nursing case management, or a blended role of clinical nurse specialist and nurse practitioner. All programs build on a foundation of family and community and prepare the graduate to function effectively and efficiently in the changing healthcare arena.

The student completing a thesis receives a master of science in nursing degree. Students not desiring to continue their education may elect a non-thesis option, leading to a master's in nursing degree. For specific information about each role specialty, contact the graduate office program at (850) 644-5974.

Department of Nutrition, Food and Exercise Sciences

The Department of Nutrition, Food and Exercise Sciences provides students with a solid foundation in the scientific aspects of nutrition, foods and health-related physical fitness through its bachelor, 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. The majors in Food and Nutrition Science, Athletic Training/Sports Medicine, and the Exercise Physiology emphasis may each be used as pre-medical programs. 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) 644-7678.

To meet the growing demand for health-related practitioners, the department offers a major in exercise science. This preparatory program offers an emphasis in one of three curricular programs: fitness, exercise physiology, and pre-physical therapy. These students combine their study of nutrient metabolism, chemistry and physiology with courses in exercise physiology and health taught by the department faculty.

The dietetics major, particularly if it is followed-up by an accredited dietetic internship, prepares students to apply their expertise in nutrition science and food service management in a variety of employment settings such as hospitals, HMO's, sports nutrition and corporate wellness programs, business and industry, public health, education, research and private practice.

Students at the master's level may elect the thesis or non-thesis option in one of six areas of emphasis: nutrition science, food science, clinical nutrition, nutrition education/health promotion, sports nutrition, exercise physiology and motor control. Four areas of specialization exist at the doctoral

level: exercise physiology, food science, nutrition, and motor control. Doctoral graduates continue to be recruited for traditional University teaching and research positions and many in the food sciences are hired by industry to research and develop new food products.

School of Social Work

The School of Social Work is committed to the pursuit and delivery of excellence in social work education. Through teaching, research, and service, the school educates its graduates for productive careers in diverse professional 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 school's initiatives build on the traditional heritage of social work, and are guided by a commitment to social services, including the development of caring communities. Recognizing that communities function as political, social, and familial entities, the school'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 school recognizes and values achieving mutuality among diverse community groups, and promotes evidenced-based models of service delivery empowering the poor and disadvantaged and ensuring the social care of all community members.

Department of Sport Management, Recreation Management and Physical Education

The Department of Sport Management, Recreation Management and Physical Education offers a bachelor, master's, and doctoral degree program in physical education.

HEALTH SERVICES ADMINISTRATION AND POLICY:

see *Graduate Bulletin*

HEBREW:
see *Religion*

HIGHER EDUCATION:
see *Educational Leadership and
Policy Studies*

Department of HISTORY

COLLEGE OF ARTS AND SCIENCES

Chair: Neil Jumonville; *Associate Chair (Graduate Studies):* Green; *Associate Chair (Undergraduate Studies):* Strait; *Professors:* Anderson, Betten, Greaves, Halpern, Howard, J. Jones, M. Jones, Jumonville, Lo, Oldson, Richardson, Ripley, Singh, Tanenbaum, Wynot; *Associate Professors:* Conner, Garretson, Grant, Green, Hadden, Stoltzfus, Strait; *Assistant Professors:* Childs, Creswell, Gray, Herrera; *Visiting Assistant Professor:* Casanovas; *Professors Emeriti:* Bartlett, Beck, Bryant, Keuchel, Moore, Rogers, Turner

History is a liberal discipline that enables students to put their lives in the contemporary world in a broad and meaningful context. It encompasses all aspects of human development chronologically, from ancient times to the present, and topically, in all areas of human interest.

An undergraduate degree in history prepares a student for vocations that require skills in critical thinking and ability in written and oral expression. Combined with certification requirements for social sciences, it can lead to a teaching career in middle or high school. It is an excellent preparation for graduate school or law school and is also desirable for those seeking positions in government or business who require a broad, liberal education rather than technical training.

The department participates in the undergraduate programs in American and Florida studies, Asian studies, humanities, international affairs, Latin American and Caribbean studies, Russian and East European studies, and in the honors in the major program.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. Two introductory courses (six [6] semester hours) in history with an AMH, ASH, EUH, HIS, LAH, or WOH prefix.

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

Thirty-three (33) 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 (21) additional semester hours in history (above 2999) distributed as follows:

1. Six (6) semester hours of American history;
2. Six (6) semester hours of European history;
3. Six (6) semester hours of Latin American, Asian, African, or Russian history; and,
4. Three (3) 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 (18) of the thirty-three (33) required semester hours must be earned at The Florida State University. All graduating seniors must complete exit interviews as part of the degree.

Minor Requirement for History Majors

A minor of twelve (12) semester hours beyond liberal studies requirements in an approved departmental field or fifteen (15) 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 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 (6) 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 (3) semester hours of test credit in an area will be required to complete the resulting three (3) 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 Program 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 (12) semester hours beyond liberal studies requirements in history courses numbered above 1999 (at least six [6] hours must be above 2999) are required. A grade of "C-" or better must be earned in each course counted toward the minor. At least six (6) of the twelve (12) semester hours must be earned at The 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	—	History: General
LAH	—	Latin American History
WOH	—	World History

Undergraduate Courses

Note: history majors must take the sequence of either WOH 1023–1030 or EUH 2000–WOH 1023 (unless they have test credit in European history, or transfer credit equivalent to these courses); all other liberal studies history courses numbered below 2999 do not count for history major credit.

Liberal Studies Area II

HIS 1003. Writing for History (3). Prerequisites: ENC 1101 or 1149. Freshman-level nonfiction prose writing on selected historical topics for a total of 8,000 words. Historical themes vary. No auditors. May be used to fulfill the liberal studies Area II requirement in English composition; **does not fulfill the liberal studies Area III requirement for history.**

Liberal Studies Area III Courses

Note: in order to fulfill the liberal studies requirement in history, a student must complete a minimum of three (3) semester hours from this list: AMH 1000; AMH 1091, AMH 2095, AMH 2096, AMH 2097; ASH 1044, ASH 3100; EUH 2000; LAH 1093; WOH 1023, WOH 1030. Each of the courses in the history liberal studies area shall include a substantial writing component, defined as 3,000 words per course.

AMH 1000. American Civilization (3). This course is a broad survey covering the scope of American history from its early colonial beginnings to the present. The emphasis is on placing the American experience in a broad setting. As such, movements and interpretations are stressed. Should not be taken by anyone considering history as a major. May not be taken by students with test credit in American history. Course will not count as credit toward the history major.

AMH 1091. The African American Experience in the United States (3). This course will examine, both chronologically and thematically, the experience of African-Americans in the United States and their role in shaping the nation's history. Course will not count as credit toward the history major.

AMH 2095. The American Indians and the United States (3). Course surveys American Indian relations with the people and the government of the United States, beginning in the 1760s and continuing to the present. Examines the Indians' diplomatic and military struggles, first to retain their territories and later to maintain some level of self-determination and cultural integrity. Students will also be exposed to the Indian perspective on familiar historical events such as the Civil War, the New Deal, and the 1960s. Course will not count as credit toward the history major.

AMH 2096. Black Women in America (3). This course will examine (using both a chronological and a thematic approach) the unique experience of the African-American woman in the United States and the role that black women have played in shaping this nation's history. Course will not count as credit toward the history major.

AMH 2097. Nationality, Race, and Ethnicity in the United States (3). The history of immigration to the United States. Includes the evolution of ethnic cultures and the role of race, acculturation and assimilation, and the conflict from colonial times to the present. Course will not count as credit toward the history major.

ASH 1044. Middle Eastern History and Civilization (3). This is an introductory course 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 will be to understand the historical and cultural background of the major problems facing the Middle East today. Course will 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.

LAH 1093. Latin America: A Cross-Cultural History (3). A cross-cultural history of Latin America focusing on women, Native Americans, African-Americans, mestizos, and mulattoes in historical context. Course will 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.

African History

AFH 1000. African History and Civilization (3). This is an introductory course for African history and civilization. It covers the broad sweep of African history and culture. The primary emphasis will be to understand the background to some of Africa's major problems and possibilities today. Course will not count as credit toward the history major.

AFH 3451. Sub-Sahara Africa Since 1800 (3). A history of Sub-Sahara Africa since 1800 is intended to provide an understanding of the background and problems of some of the African states today.

AFH 4302. North African History: A Survey (3). This course will concentrate 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 2010. A History of the United States (3). A survey of United States history with emphasis on social, economic, and political issues up through the Civil War. May not be taken by students with test credit in American history.

AMH 2020. A History of the United States (3). A survey of 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 2043. Civil War in the American Mind (3). An exploration of myth, image and rhetoric of the Civil War as they have appeared in American culture since 1865. Course will not count as credit toward the history major.

AMH 2044. American Biography (3). An exploration of issues in American history from the perspectives of the men and women who dealt with aspects of those issues firsthand. The biographical figures vary from semester to semester. May be repeated to a maximum of six (6) semester hours with instructor's permission. Course will not count as credit toward the history major.

AMH 3310. Social History of the United States (3). An analysis of the day-to-day lives of American people. Topics treated will include morals, manners, religion, family, social class, health, and occupations.

AMH 3319. The Evolution of Law, Crime, and Justice in American Society, to 1876 (3). An intermediate level survey of the social and political developments in the fields of law and criminology, from the colonial era through Reconstruction. The course focuses upon social problems, criminal behavior, punishments, changing definitions of citizenship, and the Constitution.

AMH 3351. U.S. Political History to 1877 (3). Begins with the colonial and revolutionary background of U.S. politics. The bulk of the course studies U.S. political parties and elections from the 1790s to 1877. Special emphasis is placed on the presidency and on the groups and issues that have influenced political parties.

AMH 3352. U.S. Political History from 1877 to the Present (3). 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 3370. Economic History of the United States (3). A survey of American economic history from the early colonial beginnings to the present. The course analyzes the role of economic issues and events in American history. It proceeds chronologically, is broken into 12 time periods, and major attention is directed to the 20th century.

AMH 3373. U.S. Business History (3). This historical survey of American business from colonial times to the present includes manufacturing, industrial development, agribusiness, organized labor, finance, management approaches, and the evolution of business ethics.

AMH 3444. History of the Trans-Mississippi American West (3). This course covers the history of the Trans-Mississippi West during the 19th 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 19th century explorations and culminating with the symbolic "closing of the frontier" of the 1890s.

AMH 3470. The Evolution of Organized Crime (3). 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 3472. Evolution of Law, Crime, and Justice in American Society: 1865 to the Present (3). This course serves as an intermediate level survey of the social and political developments in the fields of crime and law from the end of the Civil War to the present. Its focus is on the changing definitions of criminal behavior, regional patterns of crime, the changing nature of punishment and Constitutional issues relating to crime.

AMH 3500. Labor History of the United States (3). The social history of American workers, the labor movement, labor strikes and violence, and working class politics from colonial America to the present.

AMH 3540. Military History of the United States (3). 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). 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 4110. Colonial America to 1763 (3). A study and comparison of the founding and development of the English colonies in North America.

AMH 4130. Revolutionary America, 1760-1788 (3). 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. Special emphasis will be given to 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—some intended by the founders but many not—in which the former colonies were transformed by the experience.

AMH 4140. Thomas Jefferson's America (3). Examines the political and cultural history of the United States from the first presidential election through the "Era of Good Feelings." In 1789, the leaders of the new government faced a difficult and confusing task: they needed to build working political institutions out of the Constitution's vague instructions and at the same time create a stable, unified nation out of a divided and scattered collection of societies and peoples. The events of this period determined what type of nation the United States would become. Considerable attention will be devoted to Thomas Jefferson himself, as a figure who both shaped and represented his era.

AMH 4160. Andrew Jackson's America (3). Examines American politics, society and culture in the 1820s, '30s, and '40s. During these decades, the young republic experienced astonishing economic and geographic growth as its government became explicitly democratic for the first time. In the process, many older ways of life and inconvenient peoples were destroyed or shunted aside, as white farmers invaded Native American (and Mexican) lands and industrial capitalism enveloped the countryside. The course will focus on the turmoil that resulted from these changes, as well as on the era's re-

markable achievements. Considerable attention will be devoted to Andrew Jackson himself, as a figure who both shaped and represented his era.

AMH 4172. The Civil War Era (3). In-depth study of the 20 years from 1845 to 1865. Emphasis will be placed on the coming of the Civil War, the secession crisis, and on both the military and nonmilitary events of the war years.

AMH 4173. Post-Civil War America, 1865–1890 (3). Analysis of post-Civil War America with emphasis on the Black role in American society and the attempt to heal the wounds of the Civil War. Other topics include the rise of big business, labor unions, and the last frontier.

AMH 4220. U.S. Progressive Era, 1890–1920 (3). This course will include 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. It will devote special attention to 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). A general course in United States history from 1920 through 1945, i.e., a study of political, economic, diplomatic, military, social, and cultural/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). 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). An interdisciplinary study of American thought from the Puritans to the late 19th century, asking, among other questions, what mission America assigned to itself. Among the ideas examined will be Puritanism, the Revolutionary ideology, federalism, the American Enlightenment, romanticism, individualism, and manifest destiny.

AMH 4332. U.S. Intellectual History II: 1880 to the Present (3). An interdisciplinary study of the impact on American thought of social Darwinism, industrialism, naturalism, the culture of consumption, radicalism, anticommunism, postindustrialism, and affluence. Examines the growth of cultural criticism as a task required of the 20th-century intellectual.

AMH 4402. The Old South (3). A study of the social and economic development of the Southern states from settlement by Europeans to the end of the Civil War with emphasis on the rise of the Cotton Kingdom and the causes of secession.

AMH 4403. The South Since 1865 (3). This course views the South both as a distinct region and as an area gradually coming back into "regular" American life after the Civil War. The unique problems of adjusting to defeat, the revolution in the labor system, and troubled race relations are considered.

AMH 4423. History of Florida from 1821 to the Present (3). A history of Florida from the period of its acquisition from Spain in 1821 until the present. The various "periods" in the state's past are discussed with major attention given to the period 1920 to the present—the period of greatest growth.

AMH 4441. History of the Frontier to 1865 (3). This course examines the Westward Movement from 1763 until 1865. Social, political, economic, and military aspects of the frontier experience, and the significance of the frontier in American history, are examined.

AMH 4463. Urban America Since 1879 (3). The development of American cities and the attempts to deal with changing urban problems from 1879 to the present.

AMH 4510. United States Foreign Relations to 1900 (3). This course examines the ideas, forces, and institutions which shaped American foreign policy in the era when America evolved from an agrarian republic to an industrial empire.

AMH 4511. Twentieth-Century United States Foreign Relations (3). The focus in this course is on the responsibilities of global power and how American foreign policy changed to meet rapidly altering circumstances.

AMH 4542. War and American Society (3). This course will explore the impact of war on American diplomatic, economic, political, social, and legal developments and institutions from the American Revolution to the present.

AMH 4553. American Legal History I (3). Surveys the history of the U. S. Constitution up to 1800, including the British background, the first state constitutions, the Articles of Confederation, the Constitutional Convention, ratification debates, and first use of the Constitution in the 1790s. It concludes with the first major controversies faced by the founders, issues that the Constitution did not resolve for them easily. The course is not about constitutional interpretation or theories applied by the current Supreme Court.

AMH 4554. American Legal History II (3). This course surveys the history of both the U.S. Constitution and American law in the 19th-century. Topics include the Marshall Court, slave law and the Dred Scott decision, the impact of the Civil War and Reconstruction on the law, and the effects of industrialization on American law. The course is not about constitutional interpretation or theories applied by the current Supreme Court.

AMH 4561. Women in 19th-Century America (3). This course examines the experiences of women in 19th 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 20th-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 4565. Colonial and Revolutionary Era American Women's History (3). Course explores the lives of Native American, African and European women before they came into contact in America, how that contact altered their patterns of behavior, and how major events in America affected women's lives.

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 will be 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 4640. Humor and the American Mind (3). This course discusses American intellectual and cultural history from the 18th-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.

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 which originated in Asia.

ASH 4223. Modern Middle East (3). 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 Since the Mongols (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 4402. China to 1898 (3). A study of China from Han through the Hundred Days' Reform of 1898.

ASH 4404. China Since 1898 (3). A study of China from the Boxer Uprising through the Kuomintang and Communist Revolutions.

ASH 4442. History of Modern Japan (3). An examination of the history of Japan from its emergence as a modern state in the mid-19th century, through its defeat in World War II, to its current position as a leading economic power. Focus is on political and social evolution, empire building, postwar reconstruction, and U.S.-Japan relations.

ASH 4520. Traditional India (3). This course deals with the history of India from antiquity to the 17th century. It puts special emphasis not only on the study of Indian religions such as Hinduism, Buddhism, Jainism, and Sikhism, but also on the roles played by various important ancient and medieval kings.

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 Classical Languages, Literature, and Civilization.

ASH 3200. History of the Ancient Near East (3). A survey of the Near East—Anatolia, Mesopotamia, Egypt, the Holy Land—in the ancient period.

CLA 4437r. Studies in Greek History (3). Study of specified periods of Greek history, whether archaic, classical, or Hellenistic. May be repeated to a maximum of six (6) semester hours.

CLA 4447r. Studies in Roman History (3). Study of specified periods of Roman history in the Republic or Empire. May be repeated to a maximum of six (6) semester hours.

CLA 4880. Roman Law (3). A survey of the principles and procedures of Roman law.

EUH 3420. Rise and Fall of Classical Civilization (3). A survey of the histories of Greece and Rome and their major accomplishments.

EUH 4401. The Age of Alexander the Great (3). 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 4402. Classical Athens and Sparta (3). History of Greece from the beginning to Alexander the Great. Emphasis on the social and political structures of Sparta and Athens.

EUH 4412. The Roman Republic (3). 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). The Roman Empire from the Augustus to Constantine. Emphasis on the evolution from the principate of the early empire to the monarchy of the late empire.

European History

EUH 2035. Hitler and Stalin: Their Era and Legacies (3). Prerequisite: 3 hours of college history. Examines the dictatorships of Hitler and Stalin in terms of their political, social and cultural dimensions and their legacies beyond World War II. Course will not count as credit toward the history major.

EUH 3004. 19th-Century Europe: A Survey (3). European history 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 will be paid to the major powers.

EUH 3005. 20th-Century Europe: A Survey (3). European history from the turn of the century through the two world wars. Particular attention will be paid to the major powers in this period when Europe declined from its preeminent position.

EUH 3431. Modern Italy (3). Traces the development of Italy from the Enlightenment to the present. Discussions will concentrate on the major social, political, and intellectual currents, centering on the unification movement, the crisis of the Liberal State, and Fascism.

EUH 3451. Modern France (3). French history from the ancient regime and its fall through the turbulent 19th century, the disastrous 20th century, and recovery after the Second World War.

EUH 3462. Modern Germany (3). Traces the history of Germany from 1815 to the present. Attention is primarily directed to the origins of the German national state; the political, economic, and cultural background of Nazi Germany; and the development of two rival states in the post-World War II era.

EUH 3501. The Making of Modern England (3). A rapid survey of English history from Anglo-Saxon times to 1783. The lectures will emphasize the constitutional and legal aspects of English history, while the readings will cover broadly cultural and social aspects as well.

EUH 3532. England, the Empire and the Commonwealth (3). 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). 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 3551. Modern Poland (3). This course will examine the social, economic, and cultural as well as political development of the Polish nation in the 19th and 20th centuries. Although particular stress will be placed on internal history, appropriate attention will focus on Poland's role in international relations.

EUH 3571. Russia to Nicholas I (3). 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 19th century.

EUH 3572. History of Russia, 1825 to the Present (3). This course will examine the social, economic, and cultural as well as the political development of Russia from the reign of Tsar Nicholas I to the present day. Although particular stress will be on internal history, appropriate attention will be paid to Russia's role in international relations.

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 will provide 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; the interrelations of Christians (East and West) and the Muslim world in the period of the Crusades.

EUH 4140. Renaissance (3). A study of the character of medieval Italy and a survey of economic, political, and cultural changes in Western Europe.

EUH 4144. Reformation (3). An examination of the Protestant and Catholic Reformations in Europe from 1517 to the Peace of Westphalia in 1648.

EUH 4233. Rise of Nationalism (3). This course analyzes the European struggle toward democracy and nationalism from the collapse of Napoleonic Europe to the establishment of the German Empire, emphasizing the development of liberalism, socialism, communism, etc.

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 will cover European history in the period 1900-1918 with a review of the domestic situation and foreign policy of the major Continental powers with 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 4243. Europe, 1870-1900: The Age of European Hegemony (3). This course will examine the period when the European states were at the apogee of their power and will concentrate on the domestic situation and foreign policy of the major continental powers, as well as special emphasis on Bismarckian diplomacy and the imperial rivalries in the Balkans and overseas.

EUH 4244. Fascism (3). This course deals with the organization, leaders, ideology, and governments of Fascist movements between 1919 and the end of World War II. The focus will be a comparative examination of Mussolini's Fascist dictatorship in Italy and Hitler's Nazi regime in Germany.

EUH 4282. Europe in the Cold War and Detente (3). Deals with 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 will examine 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 will be made to present issues within a comparative framework.

EUH 4332. Balkans Since 1700 (3). The course of Balkan history emphasizing 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. Nazi Germany (3). Deals with 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 4500. England in the Middle Ages (3). History of England from Anglo-Saxon settlements to the establishment of the Tudor Dynasty. The course covers all significant aspects of life in medieval England, but emphasis is on growth of English common law and the constitution. Of particular interest to prelaw students.

EUH 4502. England Since 1870 (3). A 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 4510. Tudor England (3). History of England from the Yorkist kings in the late 15th century to the end of the reign of Elizabeth I in 1603. In addition, the course will cover the major points of Scottish and Irish history in the 16th century as well as English culture.

EUH 4512. Stuart England (3). History of England from the reign of James I to the death of Queen Anne in 1714. Scottish history will be covered as well, and due attention will be 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). 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). 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 will examine 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). 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). 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.

Latin American History

LAH 3411. History of Mexico, Central America, and the Caribbean (3). 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). 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). 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). 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 4430. History of Mexico (3). 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). Cuba, Puerto Rico, and other Caribbean societies are the subjects of this course. 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). Latin America's largest and most populous nation is the subject of this course. Themes include the evolution of Brazil's multiethnic society, the struggle for economic development, and the search for a viable political regime.

LAH 4723. Race and Class in Colonial Latin America (3). 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). 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 3308r. Voices of War (3). Course explores in depth the impact of war on the immediate participants, the societies from which they came, and the ultimate consequences. The specific war experiences will be selected by the instructor and could cover, for example, the U.S. Civil War, WWI, WWII, the Vietnam War, or the Peloponnesian War. The material will be drawn (as available) from diaries, letters, memoirs, autobiographies, oral histories, etc. May be repeated to a maximum of twelve (12) semester hours.

HIS 3949r. Cooperative Education Work Experience (0). (S/U grade only.) This course will not count as credit toward the history major.

HIS 4070. Oral History (3). Exposes students to the use of oral history as a research technique and provides experience in conducting professionally acceptable oral history interviews. Course will not count as credit toward the history major.

HIS 4080. Archives Management (3). The nature of archives; various types of records; arranging and processing archives; restoring and protecting records; archival institutions, policies, and procedures. Course will not count as credit toward the history major.

HIS 4081. Museum Management (3). History and philosophy of museums, especially historical museums; organization and operation; planning exhibits; educational activities; and public relations. Course will not count as credit toward the history major.

HIS 4086. Historic Sites Identification and Preservation (3). The identification, preservation, and maintenance of historic sites; the historic preservation movement. Course will not count as credit toward the history major.

HIS 4906r. Directed Individual Study (1–4). May be repeated to a maximum of twelve (12) semester hours. Course will not count as credit toward the history major or minor.

HIS 4930r. Special Topics in History (3). Specialized approaches to history. Topics will vary. The course may be repeated for different topics to a maximum of nine (9) semester hours.

HIS 4931r. Tutorial in History (1–2). Prerequisites: Senior history majors and minors only; instructor's permission. Selected topics in history. A maximum enrollment of five (5) students in each tutorial. May be repeated only once and to a maximum of four (4) semester hours. Course will not count as credit toward the history major or minor.

HIS 4935r. Senior Seminar (3). Advanced training in historical methods and historiography. The historical material (African, American, Asian, British, European, Latin American, or Middle Eastern) varies from seminar to seminar depending upon the instructor's area of expertise. May be repeated to a maximum of six (6) semester hours.

HIS 4936r. Honors Work (1–6). Open to participants in the University's and departmental honors program. The student must complete six (6) thesis hours. This course will not count as credit toward the history major. May be repeated to a maximum of nine (9) semester hours.

WOH 4244. World War II (3). Avoiding the common Eurocentric approach, this course deals with World War II on a global basis. It 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

African History

AFH 5308. Northern African History (4).

American History

AMH 5116. Colonial American History to 1763 (4).
 AMH 5139. Revolutionary America, 1760-1788 (4).
 AMH 5149. Thomas Jefferson's America (4).
 AMH 5177. The Civil War Era (4).
 AMH 5178. Post-Civil War, 1865–1890 (4).
 AMH 5229. U.S. Progressive Era, 1890–1920 (4).
 AMH 5239. The United States, 1920–1945: Prosperity, Depression, and World War II (4).
 AMH 5278. The United States Since 1945 (4).
 AMH 5336. U.S. Intellectual History I: Beginning to 1880 (4).

AMH 5337. U.S. Intellectual History II: 1880 to the Present (4).
 AMH 5404. The Old South (4).
 AMH 5405. The South Since 1865 (4).
 AMH 5424. History of Florida from 1821 to the Present (4).
 AMH 5447. History of the Frontier to 1865 (4).
 AMH 5469. Urban America Since 1879 (4).
 AMH 5517. United States Foreign Relations to 1900 (4).
 AMH 5518. Twentieth-Century United States Foreign Relations (4).
 AMH 5555. American Legal History I (4).
 AMH 5556. American Legal History II (4).
 AMH 5564. Women in Modern America (4).
 AMH 5567. Women in 19th-Century America (4).
 AMH 5568. Colonial and Revolutionary Era American Women's History (4).
 AMH 5576. Black America to 1877 (4).
 AMH 5577. Black America Since 1877 (4).
 AMH 5645. Humor and the American Mind (4).
 HIS 6148. American Historiography (4).

Asian History

ASH 5226. Modern Middle East (4).
 ASH 5266. Central Asia Since the Mongols (4).
 ASH 5406. China to 1898 (4).
 ASH 5408. China Since 1898 (4).
 ASH 5447. History of Modern Japan (4).
 ASH 5529. Traditional India (4).
 ASH 5559. Modern India (4).

Classical History

Note: the following history courses are offered by the Department of Classical Languages, Literature, and Civilization.

CLA 5438r. Studies in Greek History (3).
 CLA 5448r. Studies in Roman History (3).
 CLA 5885. Roman Law (3).

European History

EUH 5125. The Crusades (4).
 EUH 5127. Earlier Middle Ages (4).
 EUH 5128. Later Middle Ages (4).
 EUH 5146. The Renaissance (4).
 EUH 5147. The Reformation (4).
 EUH 5238. Rise of Nationalism (4).
 EUH 5246. World War I: Europe, 1900-1918 (4).
 EUH 5249. The Holocaust in Historical Perspective (4).
 EUH 5285. Europe in the Cold War and Detente (4).
 EUH 5338. History of East Central Europe, 1815 to the Present (4).
 EUH 5365. The Balkans Since 1700 (4).
 EUH 5457. The Age of the French Revolution, 1715–1795 (4).
 EUH 5458. Napoleonic Europe, 1795–1815 (4).
 EUH 5467. Nazi Germany (4).
 EUH 5507. England in the Middle Ages (4).

EUH 5509. Modern Britain Since c. 1870 (4).
 EUH 5516. Tudor England (4).
 EUH 5518. Stuart England (4).
 EUH 5527. England, 1714-1870 (4).
 EUH 5548. Sex and Class in England, 1750–1914 (4).
 EUH 5578. 19th-Century Russia (4).
 EUH 5579. 20th-Century Russia (4).
 EUH 5608. European Intellectual History, 1500–1800 (4).
 EUH 5609. European Intellectual History, 1800 to Present (4).
 HIS 5256. War and the Nation State (4).

Latin American History

LAH 5439. History of Mexico (4).
 LAH 5475. History of the Caribbean (4).
 LAH 5609. History of Brazil (4).
 LAH 5727. Race and Class in Colonial Latin America (4).
 LAH 5749. Social Revolutionary Movements in Latin America (4).

Historic Administration

HIS 5077. Oral History (4).
 HIS 5082. Archives Management (3).
 HIS 5083. Historic Sites Identification and Preservation (3).
 HIS 5084. The Management of Historical Sites and Museums (3).
 HIS 5085r. Internship in Historical Management (4–8). (S/U grade only.)
 HIS 6055. Historical Methods/Public History (4).

Others

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 (4).
 HIS 5940r. Supervised Teaching (1–5). (S/U grade only.)
 HIS 6059. Historical Methods (4).
 HIS 6909r. Directed Individual Study (1–4). (S/U grade only.)
 HIS 6910r. Directed Individual Research (1–3). (S/U grade only.)
 HIS 6934r. Special Topics in History (4).
 HIS 6941. Teaching History at the College Level (4).
 WOH 5246. World War II (4).

For listings relating to graduate course work 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**

Dedman School of HOSPITALITY

COLLEGE OF BUSINESS

Director and Dedman Professor: Robert H. Bosselman; *Professors:* Bonn, Bosselman, Brymer; *Associate Professors:* Harris, Laudadio, Ohlin; *Lecturer:* LaTour; *Assistant in Hospitality:* Lanford, Riscigno

The program in hospitality administration was established in 1947 in recognition of the demand for hotel and restaurant industry executives with the objective of providing the kind of education tomorrow's hospitality manager will need. The curriculum is designed so that students must meet high standards of achievement in general education and must acquire not only the specialized knowledge needed for their hospitality industry careers, but also understand the basic functions, objectives, and tools of management that are common to executive roles.

The Dedman School of Hospitality is located in the South Building of the University Center, 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 satellite technology center, a publication resource center, and a placement center. The building also contains an affiliated 35,000 square-foot, professionally managed city club that provides hospitality students with real-world food and beverage experience in elegant surroundings.

The Dedman School of Hospitality also houses one of a select group of professional golf management (PGM) majors, accredited by the Professional Golfers Association (PGA). Don Veller Seminole Golf Course, and the Dave Middleton Golf Complex, is home to the PGM program. A state-of-the-art training facility, a pro shop, restaurant, faculty offices, and classrooms complement the 18-hole golf course.

One of the most rewarding benefits of an education in hospitality administration or professional golf management at The Florida State University is that through the years a personal, intimate, congenial climate, in which students may develop to their fullest potential, has remained a chief attraction. All of the school's energies and resources are devoted exclusively to preparing each student for a professional career.

The Dedman School of Hospitality is nationally and internationally recognized as one of the best. Many firms visit the school each year to interview students for entry-level management positions. Graduates of the program enjoy top managerial and ownership positions in clubs, restaurants, hotels, resorts, institutions, 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 hospitality administration graduate for the operational challenges of industry.

The Dedman School of Hospitality, in cooperation with the College of Business and the Department of Management, offers a Master of Sci-

ence degree in Management with a major in hospitality and tourism. This part-time program is designed for professionals in the hospitality industry. Its curriculum is a unique mix of management-oriented classes combined with advanced study in hospitality administration. For additional information regarding this program, please consult the "Department of Management" chapter of the *Graduate Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in Hospitality Administration

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 hospitality administration majors; 3) the general business core requirements for hospitality administration majors; 4) the general business breadth requirements for hospitality administration majors; and 5) the major area requirements for hospitality administration majors. **Note:** to be eligible to pursue a hospitality administration major, students must meet the admission requirements of the College

of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All hospitality administration majors must complete the following five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All hospitality administration majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

HFT	3240	Managing Service Organizations (3).
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Plus four (4) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
QMB	3200	Quantitative Methods for Business Decisions (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All hospitality administration majors must complete the courses listed below. A minimum grade point average (GPA) of 2.0 must be earned in the courses used to satisfy the hospitality administration major area requirements.

FSS	3337	Quantity Food Production Management (2).
FSS	3337L	Quantity Food Production Management Laboratory (1).
FSS	4338	Food and Beverage Management (2).
FSS	4338L	Food and Beverage Management Laboratory (1).
HFT	3220	Human Resource Management in Hospitality Operations (3).
HFT	3224	Managerial Behavior in Hospitality Operations (3).

HFT	4471	Financial Management Control Systems (3).
HFT	4502	Hospitality Services Marketing and Research (3).
HFT	4941	Field Study in Hospitality Administration (0).

Plus three (3) electives from the following list of courses:

FSS	3423	Property Management for Hospitality Operations (3).
HFT	3272	Senior Services Management (3).
HFT	3277	Club Management (3).
HFT	3354	Agronomy for Golf Course Management (3).
HFT	3600	Law for Hospitality Operations (3).
HFT	3700	Tourism Management and the Environment (3).
HFT	4253	Lodging Management (3).
HFT	4294	Strategic Management in Hospitality Administration (3).
HFT	4866	Wine and Culture (3).
HFT	4930r	Special Topics in Hospitality Administration (3).

Students enrolled in the Dedman School of Hospitality must complete one thousand (1,000) clock hours of satisfactory, verifiable work experience in the hospitality industry. The one thousand (1,000) hours of work experience must be completed prior to graduation, with the last 500 hours completed while enrolled at The Florida State University.

To enhance their employment opportunities, students may choose to complete one of the concentrations described below in addition to the requirements for the major in hospitality administration.

Concentration in Management Information Systems

ISM	4030	Management Information Systems Analysis and Design (3).
ISM	4212	Information for Operating Control & Data Management (3).

One of the courses listed below:

CGS	3403	Introduction to COBOL Programming for Business (3).
ISM	4113	Information and Communications Systems Management (3).
ISM	4905	Directed Individual Study (3).

Students concentrating in management information systems are strongly encouraged to fulfill a portion of their one thousand (1,000) clock hours of work experience requirement in a hospitality computer setting.

Concentration in Senior Services Management

HFT	3272	Senior Services Management (3).
SOW	4645	Aging and Old Age: Social Work with the Aged (3).

One of the courses listed below:

ADE	5193	Education and Training in Gerontology (3).
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FAD	4340	Later Maturity (3).
NUR	4284	Dynamics of Aging (3).
PSY	930	Special Topics in Psychology: Seminar in the Psychology of Aging (3).

Students concentrating in senior services management are required to complete five hundred (500) clock hours of work experience in an approved senior services facility. These hours must be completed prior to graduation and may be applied toward the one thousand (1,000) clock hours required for the major in hospitality administration.

Summer Program in Resort and Condominium Management

HFT	3700	Tourism Management and the Environment (3).
HFT	3941	Management Internship (3).
HFT	4253	Lodging Management (3).
HFT	4502	Hospitality Services Marketing and Research (3).

These classes are taught by The Florida State University faculty at selected sites in the summer term. Classes meet for extended sessions on Sunday and Monday of each week. The remainder of the week is spent working in various departments at the selected sites. Courses completed in this program count toward the State of Florida requirement that at least nine (9) semester hours be completed in the summer term at one of the State University System senior institutions.

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 courses are offered:

HFT	4930r	Special Topics in Hospitality Administration [International Hotel Administration] (3).
HFT	4930r	Special Topics in Hospitality Administration [Special Studies in International Hospitality Administration] (3).
HFT	4930r	Special Topics in Hospitality Administration [European Food & Wine] (3).
HFT	4930r	Special Topics in Hospitality Administration [European Travel & Tourism] (3).

Courses completed in this program count toward the State of Florida requirement that at least nine (9) semester hours be completed in the summer term at one of the State University System senior institutions.

Requirements for a Major in Professional Golf Management

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 course prerequisites for professional golf management majors;
- (3) The general business core requirements for professional golf management majors;
- (4) The general business breadth requirements for professional golf management majors; and
- (5) The major area requirements for professional golf management majors.

Note: to be eligible to pursue a professional golf management major, students must meet the admission requirements of 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 golf management majors must complete the following five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All professional golf management majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

HFT	3240	Managing Service Organizations (3).
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Plus four (4) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).

QMB	3200	Quantitative Methods for Business Decisions (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All professional golf management majors must complete the courses listed below. A minimum grade point average (GPA) of 2.0 must be earned in these courses. Professional golf management majors also must satisfy a number of supplemental requirements, including a playing-ability test, PGA workshops, and internships, as described in the PGM policies and procedures handout available from the Dedman School of Hospitality.

FSS	3337	Quantity Food Production Management (2).
FSS	3337L	Quantity Food Production Management Laboratory (1).
FSS	4338	Food and Beverage Management (2).
FSS	4338L	Food and Beverage Management Laboratory (1).
HFT	3220	Human Resource Management in Hospitality Operations (3).
HFT	3224	Managerial Behavior in Hospitality Operations (3).
HFT	3277	Club Management (3).
HFT	3325	Agronomy for Golf Course Management (3).
HFT	4471	Financial Management Control Systems (3).
HFT	4502	Hospitality Services Marketing and Research (3).
HFT	4930r	Professional Golf Management (1–3).
HFT	4941	Field Study in Hospitality Administration (0).

Definition of Prefixes

FSS	—	Food Service System
HFT	—	Hospitality, Food, Tourism

Undergraduate Courses

FSS 3337. Quantity Food Production Management (2). Corequisite: FSS 3337L. Food and beverage sanitation, production, and service; food service equipment; menu planning and costing; nutrition and safety. Introduction to basic food and beverage management concepts.

FSS 3337L. Quantity Food Production Management Laboratory (1). Corequisite: FSS 3337. Commercial quantity food production experience.

FSS 3423. Property Management in Hospitality Operations (3). The management of maintenance, energy, and engineering systems in hospitality industries; food service facilities planning, productivity work analysis, and sanitation; with computer applications.

FSS 4338. Food and Beverage Management (2). Prerequisites: FSS 3337, 3337L; Corequisite: FSS 4338L. Management methods and concepts utilized in administration of advanced food and beverage functions.

FSS 4338L. Food and Beverage Management Laboratory (1). Prerequisites: FSS 3337, 3337L; Corequisite: FSS 4338. Production and service of international cuisine.

HFT 3000. Introduction to Hospitality and Tourism Management (3). An introductory review of the segments, disciplines, career opportunities, and current issues facing the hospitality industry. Industry leaders may be featured as guest speakers. Open to nonmajors.

HFT 3220. Human Resource Management in Hospitality Operations (3). Prerequisite or Corequisite: MAN 3240. 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 3224. Managerial Behavior in Hospitality Operations (3). Prerequisite: HFT 3220. Analysis and development of interpersonal management skills including leadership, ethics, employee and guest relations, team building. Discussions on current issues, training, and quality management in the hospitality industry.

HFT 3240. Managing Service Organizations (3). An in-depth examination of the concept of service and the linkages of the three most important functional areas of the firm: marketing, operations, and human resources. The course also addresses the concept of quality.

HFT 3272. Senior Services Management (3). Prerequisite: HFT 3220; Corequisite: HFT 4253. 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 3277. Club Management (3). Prerequisite: HFT 3220. The development and management of clubs, including golf course operations, organizational and financial structure, membership and guest relations, design and other amenities.

HFT 3354. Agronomy for Golf Course Management (3). An overview of horticultural and agronomic practices needed by golf course managers in the hospitality industry.

HFT 3424. Cost Control Systems in Hospitality Operations (3). Prerequisites or Corequisites: MAN 3240; ACG 2021. 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 3600. Law for Hospitality Operations (3). Prerequisites: HFT 3220; BUL 3310. Basic concepts of law as applied to the hospitality industry including legal definitions, innkeeper/guest relationships, liability, and other legal problems.

HFT 3700. Tourism Management and the Environment (3). Tourism management, organization, and development. Emphasis on economic and environmental issues confronting the industry such as balancing use and preservation. Open to nonmajors.

HFT 3941r. Management Internship (1–3). (S/U grade only.) Prerequisites: Three, three (3) hour courses in hospitality administration, excluding DIS; 3.0 average. A management internship program providing on-the-job management experience in some phase of the hospitality industry. HAD majors only. May be repeated to a maximum of nine (9) semester hours.

HFT 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

HFT 4253. Lodging Management (3). Prerequisite: HFT 3220. The study of hotel, motel, resort, and other types of lodging operations including functional department organization, operation, and systems. Emphasis on rooms department and computer usage in lodging properties as well as quality issues.

HFT 4294. Strategic Management and Operations Analysis in Hospitality Administration (3). Prerequisites or corequisites: all hospitality core courses. Integrative, applied course in strategic management and decision making in the hospitality industry utilizing case studies and simulation exercises. An in-depth examination of the use of various management tools for problem solving. Discussions on industry trends, multicultural, and quality issues.

HFT 4471. Financial Management Control Systems (3). Prerequisites: ACG 2021; FIN 3403. Design and interpretation of financial statements, budgets, and internal reporting systems for hospitality operations. In-depth examination of system of accounts (P&L, balance sheets, cash flow), computer usage in financial management, financial feasibility, and valuation of assets.

HFT 4502. Hospitality Services Marketing and Research (3). Prerequisite: MAR 3023. Applications of strategic market research and product/service positioning in the hospitality industry. Emphasis on competitive marketing strategies including sales, advertising, and promotions. Discussion on unique features of hospitality marketing, market research/analysis, ethics, and quality.

HFT 4866. Wine and Culture (3). 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 21 years of age and older. May not be taken as a S/U course.

HFT 4905r. Directed Individual Study (1–3). May be repeated up to five (5) times.

HFT 4930r. Special Topics in Hospitality Administration (1–3). In-depth study of current topics in hospitality administration. May be repeated to a maximum of twelve (12) semester hours when topics change.

HFT 4941. Field Study in Hospitality Administration (0). (S/U grade only.) 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 will complete the work experience requirement.

HFT 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine (9) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

Graduate Courses

Please see the "Department of Management" chapter of the *Graduate Bulletin* for the full course descriptions.

HFT	5226.	Leadership Strategies in Hospitality and Tourism Organizations (3).
HFT	5245.	Managing Service Organizations (3).
HFT	5477.	Financial and Cost Control Systems for Hospitality and Tourism Organizations (3).
HFT	5506.	Services Marketing and Research for Hospitality and Tourism Organizations (3).
HFT	5697.	Legal Environment of Hospitality and Tourism Organizations (3).
HFT	5908.	Studies in Hospitality and Tourism (3).
HFT	5935.	Special Topics in Hospitality and Tourism (3).

HOUSING AND COMMUNITY DEVELOPMENT:
see **Urban and Regional Planning**

HOUSING AND HOME DESIGN:
see **Family and Child Sciences**

HUMAN SCIENCES, GENERAL COURSES:
see **College of Human Sciences**

Program in HUMANITIES

COLLEGE OF ARTS AND SCIENCES

Program Director: Leon Golden; *Undergraduate Seminar Instructors:* William Cloonan, David Darst, Leon Golden; *Academic Coordinator and Major Advisor:* Barbara Reis

A bachelor of arts (BA) degree 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, journalism, law, librarianship, foreign service, the religious professions, music, arts administration, and government service.

Requirements for a Major in 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 'Foreign Language' in the "College of Arts and Sciences" chapter of this *General Bulletin*. If a student chooses to double major, only six (6) 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 thirty-nine (39) semester hours beyond the liberal studies requirements and numbered above 1999. All course work counted toward the humanities major must be completed with a "C-" or higher. All humanities majors must take HUM 2221, 2235, and 2250, or their equivalents, before taking the required HUM 4935 seminar. Humanities majors must also take a nonwestern humanities course (x; 3 CU) and a multicultural diversity course (y; 3 CU), 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 a Program in Humanities advisor. If a student chooses to double major, only six (6) semester hours may be applied to both majors. The administrative office of the Program in Humanities has a complete listing of approved courses for departments and areas of concentration. The courses will be distributed as follows:

1. Eighteen (18) semester hours in one of the following departments: American Studies; Art History; Asian Studies; Classical Languages, Literature, and Civilization; Dance/Theatre History; English; History; Communication; Film Studies; Interior Design/Art History; Latin American and Caribbean Studies; Modern

Languages and Linguistics; Music (history and theory); Philosophy; Religion; and Theatre (history and criticism); or in literature courses in a classical language numbered above 1999 or a modern language numbered above 2999;

2. Fifteen (15) semester hours in one of the following concentrations or time periods—American Studies; Asian and Middle East Studies; Black Studies; Latin American and Caribbean Studies; Women's Studies; or Classical studies, Medieval studies, Renaissance studies, 18th-century studies, 19th-century studies, 20th-century studies; with no more than two courses in this cluster being selected from any one of the above-mentioned departments;

3. Nine (9) semester hours of criticism and appreciation to be selected as follows: **one course from each of the three (3) categories listed below (a, b, and c)**

a) Choose **one** of the two courses listed below.

ARH	3056	History and Criticism of Art I (3)
ARH	3057	History and Criticism of Art II (3)

b) Choose **one** of the four courses listed below.

ENG	3014	Critical Issues in Literary Studies (3)
ENG	3115	Film Theory and Criticism (3)
ENL	3334	Introduction to Shakespeare (3)
ENL	4333	Shakespeare (3)

c) Choose **one** of the five courses listed below.

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	2051	Music Cultures of the World—Music of Tribal and Folk Culture (3)
MUH	2052	Music Cultures of the World II—Ritual and Art Music of the Non-Western World (3)
MUH	3053	Minority Musics in North America (3)

Note: a minimum of six (6) of the above hours is to be taken as part of the course requirements for either the departmental or the time period/concentration segments of the program.

4. Three (3) semester hours in HUM 4935r Seminar in the Humanities. **Note:** this seminar can only be taken after receiving advisor approval and item #3 above has been completed. The seminar is **only** offered one semester a year.

All humanities majors are required to schedule regular advising appointments. Additionally, humanities majors are required to schedule a graduation check with a designated humanities advisor the semester prior to graduation. Failure to obtain advisor clearance will cause a delay in the student's graduation date.

Honors in the Major

The Program in Humanities 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 Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Humanities

Courses taken to meet the humanities minor are **not** applicable to **any** other requirement. The undergraduate minor may be accomplished in one of the two following ways:

1. Twelve (12) semester hours in courses with a HUM prefix; or,
2. Fifteen (15) semester hours of courses specified by the humanities program. The list is available upon request. These fifteen hours are divided as six (6) semester hours in one department and nine (9) semester hours in a second department. At least six (6) of these fifteen (15) semester hours must be earned in courses numbered above 2999. All course work counted toward the humanities must be completed with a "C-" or higher.

Definition of Prefixes

HIS	—	History: General
HUM	—	Humanities
LIT	—	Literature

Undergraduate Courses

HUM 2221. Humanities: Homer to Gothic (3). Introduction to the thought, values, and arts of Western culture from Homer to the Gothic.

HUM 2235. Humanities: From the Renaissance to the Enlightenment (3). Introduction to the thought, values, and arts of Western culture from the Renaissance to the Enlightenment.

HUM 2250. Humanities: 18th-Century Romanticism to Postmodernism (3). Introduction to the thought, values, and arts of Western culture from 18th-Century Romanticism to the Postmodern period.

HUM 2944r. University Honors Colloquium (1).(S/U grade only.) Prerequisite: Honors students only. Each fall faculty from across the academic and creative arts spectrum explore "Art and Inquiry in the Modern University" with entering honors students. Discussions follow each weekly presentation. Students are required to write responses totaling two thousand (2,000) words. May be repeated to a total of two (2) semester hours.

HUM 3251. Humanities: Film and 20th Century Culture (3). Introduction to the thought, values, and arts of Western culture, with special emphasis on film.

HUM 3321. Multicultural Dimensions of Film and 20th-Century Culture (3). Explores diversity within Western culture by focusing on film as a key medium for shaping social and cultural attitudes and values. Primary emphasis will be placed on the themes of race and gender but the student will also be trained in the analysis and appreciation of film as a uniquely modern art form.

HUM 3324. Cultural Imperialism (3). An analysis of the significant works of literature and the other arts created under the dominant "imperial" cultures. The course focuses upon

themes relating to colonial subjugation. Works will be analyzed from the perspective of the dominating culture and from the contrasting vision of the subjugated colonial cultures.

HUM 3413. Humanities: South Asian (3). Introduction to the religion, philosophy, literature, and arts of Indian and Islamic culture in their classical and modern expressions. Not offered every semester.

HUM 3416. East Asian Humanities (3). Introduction to the religion, philosophy, literature, and arts of Chinese and Japanese culture in their classical and modern expressions. Not offered every semester.

HUM 3800. Humanities: Principles of Criticism and Appreciation (3). Introduction to the principles of criticism and appreciation in the arts and the humanities.

HUM 3930r. Humanities: Special Topics (1–3). May be repeated to a maximum of six (6) semester hours.

HUM 4906r. Directed Individual Study (3). Prerequisite: Majors only. 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 10 weeks. The minimum length of the paper will be 30 pages excluding footnotes and bibliography. HUM 4906r cannot count toward major course work. May be repeated to a maximum of nine (9) semester hours.

HUM 4907r. Honors Work (1–6). Prerequisite: Honors only. May be repeated to a maximum of nine (9) semester hours.

HUM 4931r. Topics in the Civilization of Britain or Italy (3). May be repeated to a maximum of six (6) semester hours.

HUM 4935r. Seminar in the Humanities (3). Prerequisite: Majors only. The seminar "Principles of Criticism and Interpretation of Humanities" is **only** offered one semester a year. This course 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 (6) semester hours.

HUM 4935r. Seminar in the Humanities (3). Prerequisite: Majors only. This seminar builds on issues in the first seminar.

Graduate Courses

HUM 5227. The Humanistic Tradition: Greek and Roman (3).

HUM 5245. The Humanistic Tradition: Medieval, Renaissance, and Baroque (3).

HUM 5253. The Humanistic Tradition: The Modern World (3).

HUM 5909r. Directed Individual Study (3). (S/U grade only.)

HUM 5915r. Supervised Research (1–5). (S/U grade only.)

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).

LIT 5066r. Study of Comparative Literature (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of INDUSTRIAL ENGINEERING

FAMU–FSU COLLEGE OF ENGINEERING

Chair: Ben Wang; *Professors:* Awoniyi, Braswell, Wang; *Associate Professors:* Pignatiello, Simpson, Zhang; *Assistant Professor:* Okoli; *Visiting Professor:* Li; *Visiting Associate Professors:* Liang, Owusu; *Instructor:* Cutwright; *Adjunct Professors:* Booeshaghi, Braswell; *Adjunct Instructor:* Moshir

The mission of the Department of Industrial Engineering is to provide for students a solid industrial engineering curriculum coupled with a strong research program driven by the economic and technologic development needs of society.

Industrial engineering (IE) 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 (IEs) pursue careers in manufacturing, service industries, and government. In addition, many IEs are now being employed in nontraditional fields such as hospitals, banks, insurance, and information processing. The present

and future demand for IEs appears to be very high. IEs 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 BSIE curriculum is designed to comply with the current Accreditation Board for Engineering and Technology (ABET) criteria for accrediting engineering programs. The BSIE curriculum has the following four educational objectives:

1. To educate and train students to have broad technical backgrounds to work as industrial engineers in manufacturing and other industries;
2. To provide industrial engineering graduates with sufficient knowledge to continue their studies at the graduate level;
3. To prepare students for successful industrial engineering careers in an increasingly multicultural and diverse society; and,
4. To provide industrial engineering graduates with teamwork, communication and engineering management skills.

To achieve these curricular objectives, all industrial engineering students must demonstrate or exhibit specific graduate attributes or program outcomes. Students are instructed to contact their academic advisor or visit the departmental website at <http://www.ie.eng.fsu.edu> to obtain the current list of industrial engineering program outcomes.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the

'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. ENC 1101;
2. ENC 1102;
3. MAC 2311*;
4. MAC 2312*;
5. MAC 2313*;
6. MAP 2302;
7. CHM 1045/1045L*;
8. PHY 2048/2048L;
9. PHY 2049/2049L;
10. Six (6) semester hours in humanities;
11. Six (6) semester hours in social science;
12. Three (3) additional semester hours in humanities or social science.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in Industrial Engineering

It is the policy of the Department of Industrial Engineering that a student must receive passing 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 can result in the cancellation of your enrollment in the 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.

A candidate for the bachelor of science degree in industrial engineering (BSIE) is required to successfully complete the following courses, in addition to the other College of Engineering core requirements:

EGN	3443	Statistical Topics in Industrial Engineering (3)
EIN	3391	Introduction to Engineering Management (3)
EIN	4118	Computing Topics in Industrial Engineering (3)
EIN	4243C	Ergonomics (3)
EIN	4312	Tool Engineering and Process Engineering (3)
EIN	4333	Design of Integrated Production Systems and Facilities Layout (3)
EIN	4390C	Manufacturing Processes and Materials Engineering (5)
EIN	4395	Manufacturing Systems Engineering (3)
EIN	4891	Industrial Engineering Senior Design Project (3)
ESI	3312C	Operations Research I: Deterministic (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 adviser's approval) (3)
XXX	XXXX	Mathematics Elective (3)
XXX	XXXX	Department Electives (6)

Industrial engineering majors **are required** to consult with their IE academic adviser before enrolling for the next academic term. Students must obtain current IE requirements and course offering schedules from the IE department.

Grade Requirements

In addition to University and college requirements regarding grades and grade point average (GPA), the Department of Industrial Engineering (IE) requires that the IE major achieve a grade within the "C" range or higher for all required IE courses.

Definition of Prefixes

EGN	—	General Engineering
EGS	—	Engineering Graphics
EIN	—	Industrial Engineering
EMA	—	Materials Engineering
ESI	—	Industrial Engineering Systems

Undergraduate Courses

EGN 1004L. First Year Engineering Laboratory (1). 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. 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. 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. An emphasis on discrete cash flow diagrams, cash flow equivalence factors, standard criteria for comparing project proposals, special cash flow topics, special analysis, and case studies.

EIN 3118. Computing Topics in Industrial Engineering (3). Prerequisite: CGS 3408. 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.

EIN 3390C. Manufacturing Processes & Materials Engineering (5). Prerequisites: CHM 1045, 1045L; EGN 2123; PHY 2049. 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. Laboratory experiences.

EIN 3391. Introduction to Engineering Management (3). Prerequisites: EGN 2123, 3613. 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 3905r. Directed Independent Study (3). Prerequisite: permission of department chair. Topics vary and each case must be approved by the department chairperson. May be repeated to a maximum of six (6) semester hours.

EIN 3949r. Cooperative Work Experience (0). (S/U grade only.) May be repeated six times.

EIN 4214. Occupational Safety and Hazard Control (3). Prerequisite: EIN 4243. The history of safety, safety in the workplace, government regulations and methods of accident prevention.

EIN 4243. Ergonomics (3). Prerequisites: EGM 3512; EGN 3443. 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 4390C. 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, 3613; ESI 3312C. 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 4395. Manufacturing Systems Engineering (3). Prerequisite: EIN 4312. 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 4611. Industrial Automation and Robotics (3). Prerequisite: EIN 4390C. 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 will be discussed. Course will be supplemented by labs that will help students apply and evaluate the concepts studied in the classroom.

EIN 4891. Industrial Engineering Senior Design Project (3). Prerequisite: Industrial engineering senior status. Students are expected to complete a large-scale design project involving the full implementation of the IPPED process. Project includes a written report and requires the use of various design techniques and methods.

EIN 4934r. Honors Thesis (3). May be repeated to a maximum of six (6) semester hours.

EIN 4936r. Selected Topics in Industrial Engineering (3). Offered fall and spring semesters. Topics will be 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 (9) semester hours.

ESI 3312C. Operations Research I: Deterministic (3). Prerequisite: MAP 3305. The following topics will be treated 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 4234. Quality Control and Reliability Engineering (3). Prerequisites: EGN 3443. Introduction to quality and reliability engineering. Engineering process quality control techniques, engineering design for reliability, and computer integrated reliability engineering.

ESI 4313C. Operations Research II: Nondeterministic (3). Prerequisites: EGN 3443; MAP 3305. 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). Corequisite: ESI 4234. Simulation modeling and computer solution of industrial engineering systems. Modeling strategies, probability considerations, simulation languages, simulation verification, and engineering case studies.

Graduate Courses

EIN	5114C.	Computing Topics in Industrial Engineering (3).
EIN	5322.	Engineering Management (3).
EIN	5336.	Production Control (3).
EIN	5353.	Engineering Economic Analysis (3).
EIN	5392.	Manufacturing Processes and Systems (3).
EIN	5398.	Manufacturing Materials Processing (3).
EIN	5399.	Concurrent Engineering (3).
EIN	5412.	Computer-Aided Manufacturing (3).
EIN	5413.	Computer Aided Process Planning (3).
EIN	5524.	System Modeling and Simulation (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.)

EIN 6126.	Global Manufacturing Strategy (3).	EIN 8964.	Preliminary Doctoral Examination (0).	ESI 5417.	Engineering Data Analysis (3).
EIN 6357.	Advanced Engineering Economy (3).	EIN 8976.	Master's Thesis Defense (0). (S/U grade only.)	ESI 5451.	Project Analysis and Design (3).
EIN 6416.	Manufacturing Systems Analysis (3).	EIN 8985r.	Dissertation Defense (0).	ESI 5458.	Optimization on Networks (3).
EIN 6419.	Tolerance and Metrology for Precision Manufacturing (3).	EM 5182.	Composite Materials Engineering (3).	ESI 5524.	Advanced Simulation Applications (3).
EIN 6609.	Advanced Computer Numerical Control and Application (3).	ESI 5154.	Statistical Process Control (3).	ESI 5525.	Modeling and Analysis of Manufacturing and Industrial Systems (3).
EIN 6901r.	Master's Thesis (1-6). (S/U grade only.)	ESI 5228.	Introduction to ISO 9000 (3).	ESI 5580.	Applications of Knowledge Engineering (3).
EIN 6980.	Dissertation (3-24). (S/U grade only.)	ESI 5247.	Engineering Experiments (3).	ESI 6498r.	Advanced Topics in Optimization (1-9).
		ESI 5248.	Environmentally Conscious Design and Manufacturing (3).		
		ESI 5408.	Applied Optimization (3).		

INFORMATION STUDIES

SCHOOL OF INFORMATION STUDIES

Professors: Blazek, Dresang, Hart, McClure, Robbins, Wiegand; *Associate Professors:* Bertot, K. Burnett, Gathegi, C. Jorgensen, Latham; *Assistant Professors:* Belton, Burke, G. Burnett, Genz, Shim; *Visiting Assistant Professors:* Gross, Heo, P. Jorgensen, Kazmer, Marty; *Other Faculty:* Arbogast de Hubert-Miller, Brooks, Chavez, Chow, Dulaney, Kotrla, Miner, Phelps, Reist, Stromberg; *Visiting Instructor/Librarian:* Montague; *Professors Emeriti:* Aaron, Conaway, De Pew, Hunt, Jahoda, Logan, Summers, Trezza

The School of Information Studies offers a bachelor's degree in information studies, a master's degree which is accredited by the American Library Association, a specialist degree, and a doctor of philosophy degree. The bachelor's degree offers a major in information studies. The master's degree is required for entry-level positions in the field of library practice. Refer to the "School of Information Studies" chapter of this *General Bulletin* or to the school's website at <http://www.lis.fsu.edu> for more details concerning degree programs and other information. For complete details of graduate degree requirements, plus a description of the School of Information Studies and its facilities and opportunities, refer to the *Graduate Bulletin*.

State of Florida Common Course Prerequisites

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The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate

degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. COP XXXX (College-level programming course in C, C++, or Java);
2. CGS 2060;
3. MAC 1105.

Note: CGS 3048 (prerequisite: MAC 1140 or MAC 2233) may be substituted for COP XXXX at The Florida State University.

Definition of Prefix

LIS — Library and Information Studies

Undergraduate Courses

LIS 2568. Multicultural Issues in Information Resources for Youth (3). Introduces students to diversity within Western society. Employs strategies for analyzing print, electronic, and digital information resources for youth that will assist students in understanding race, ethnicity, class, gender, disability and age issues in the contemporary cultural context.

LIS 3021. Technical Communication for the Information Professions (3). Course covers technical and professional documents generated and used by information professionals. Attention will be given to the writing process with emphasis on audience analysis, document design, collaboration, and peer editing.

LIS 3201. Information Needs and Preferences (3). This course provides students with an overview that emphasizes the user's perspective in the analysis of information needs and preferences. It also offers the fundamentals for a broad approach with a unifying structure to understanding human information-seeking behaviors.

LIS 3267. Information Science (3). Prerequisite: LIS 3353. 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 organization, transfer, classification, formatting and use.

LIS 3353. Technologies for Information Services (3). Beginning beyond the computer literacy level, the course develops an appreciation for the application of computer hardware, software, and information systems for the provision of information services. Highlights features and offers up-to-date

coverage of technical developments with examples of real-world software applications and the principles by which computer systems and their networks support information seekers.

LIS 3602. Information Sources and Services (3). An introduction to the basic sources and systems for the provision of information to users. Provides an integrated approach that combines print and electronic sources and comprehensive services within a broad range of user and use contexts which emphasize matching sources and services with user needs and preferences.

LIS 3946r. Field Study in Information Studies (1-6). Prerequisite: Consent of advisor. Provides students with an unpaid work experience within a major area of information studies. May be repeated to a maximum of six (6) semester hours.

LIS 3949r. Cooperative Education Work Experience (0). (S/U grade only.) Prerequisite: Consent of advisor. Paid work experience with a firm or agency to be determined on an individual basis.

Advanced Undergraduate Courses

LIS 4264. Systems Approach in the Information Environment (3). 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 4266. Theory of Information Retrieval (3). Prerequisites: LIS 3267, 4276 and 4351. The theory of information retrieval for both text and picture materials. Discussion of various retrieval, query, and knowledge representation methods beyond Boolean models, including vector, probabilistic edge-detection, 2D strings, and associative network models. Elaboration of concepts of retrieval performance, efficiency and effectiveness beyond precision and recall. Retrieval issues of user-interfaces and hypertext are explored.

LIS 4276. Quantitative Methods in Information Studies (3). Prerequisites: LIS 3201, 3602 and senior standing or consent of instructor. Details practical methods for collecting and analyzing quantitative data. Includes hypothesis testing, analysis of variance, contingency tables, correlation and experimental design.

LIS 4277. Usability and Usefulness of Information Systems (3). Prerequisites: LIS 3201 and 4276. 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). Prerequisite: LIS 3353. The understandings, skills and techniques needed for the production and utilization of various types of electronic graphic resources, with particular emphasis on visual literacy, the evaluation of graphic resources, design standards and the visual representation of information. Students will 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 4351. Interface Design (3). Prerequisite: LIS 3353. Introduction to the basic theory of computer interface design for information specialists and the fundamental concepts and techniques of computer programming.

LIS 4355. Natural Language Processing for the Information Professional (3). Prerequisites: LIS 3267, 4351. Studies the problems and techniques of processing natural language as an approach to providing information services. Introduces the theory of spoken language and how it differs from theories of computer-generated natural language. Includes language pattern recognition and syntactic inference, and semantic networks as applied to information systems.

LIS 4365. Advanced Web Applications (3). Prerequisite: LIS 4301. Course introduces the concepts and technical needs of client and server side application technologies for World Wide Web information servers. Teaches students how to evaluate the effectiveness of WWW applications. Acquaints students with resources available for design, production and evaluation of WWW information servers and assists students in developing strategies for locating these sources. Students gain hands-on experience in web application production, including: PERL/CGI, JavaScript, server authentication techniques, synchronized multimedia, and hypertext authoring.

LIS 4366. Website Development and Administration (3). Prerequisite: LIS 4301. 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 paid to information provision, and the role of Web developers as providers and managers of information resources.

LIS 4410. Societal Implications of the Information Age (3). An introduction to the evolving role of information in the "Information Age." Emphasizes information services in society and contemporary information resources that fulfill society's information needs. Considers the nature of electronic sources of information as well as other information formats and sources.

LIS 4481. Managing Information Resources and Services (3). Prerequisites: three of the following: LIS 3201, 3267, 3353, 3602, 4276 and 4351. An introduction to management science and administrative issues as applied to information resources management (IRM), information centers, and information services. An emphasis is placed upon management functions, concepts and principles. IRM definitions and issues. IRM implementation and strategies. Life-cycle management, and career opportunities.

LIS 4482. Managing Networks and Telecommunications (3). Prerequisite: LIS 3353. This is a foundation course in the use of networks and telecommunication to provide information. Focus is on modern data networks, especially building blocks of local area networks (LANs). The course deals with concepts, technical requirements, and a variety of management issues.

LIS 4488. Network Administration for the Information Professional (3). Prerequisites: LIS 3353, 4482. Provides the information and skills necessary to perform competently in the role of network administrator or network system manager within a library and/or information center environment. Introduces students to the design, operation, and management of networked systems from local area networks to the Internet. Includes communication concepts, technical and application issues, with a focus on managing a network.

LIS 4642. Electronic Information Sources and Services (3). Prerequisite: LIS 3602. An introduction to the processes of electronic information retrieval including some theoretical principles, laboratory experiences and selected current research issues.

LIS 4701. Information Representation (3). Prerequisite: LIS 3267 and 3602. Course addresses the principles and techniques of organizing non-bibliographic information sources including unpublished and transitory materials such as archival and manuscript collections, business/office records, ephemera and local databases. Course focuses on locally produced resources created for a narrowly defined, specific, and possibly restricted information user group.

LIS 4770. Information and Image Management (3). Describes the scope and the problems involved in the administrative management of records. Emphasis centers upon the importance of managing and controlling records from the time of their creation until their vital deposition.

LIS 4905r. Directed Individual Study (1-3). (S/U grade only.) Guided studies for individual professional and subject needs. May be repeated to a maximum of six (6) semester hours.

LIS 4910r. Design Problem (3). Prerequisite: senior standing. An independent enterprise for which a student designs and implements an information studies project, working under faculty guidance. May be repeated to a maximum of six (6) semester hours.

LIS 4930r. Special Topics in Information Studies (3). Prerequisites: three of the following: LIS 3201, 3267, 3353, 3602, 4276, and 4351. A directed and supervised investigation of selected problems, issues, and trends in information studies, with an emphasis on research. It is anticipated that each offering will be different because of the evolving nature of the subject matter. May be repeated to a maximum of six (6) semester hours.

LIS 4938. Seminar in Information Studies (3). Prerequisite: Senior standing and three of the following: LIS 3232, 3267, 3342, 3602, 4276, 4351. The 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 Studies (1-6). (S/U grade only.) Prerequisite: LIS 3201, 3353, 3602 and consent of advisor. Acceptable work experience in the information industry that expands and integrates classroom work. Internship may be paid or unpaid. May be repeated for a maximum of six (6) semester hours.

LIS 4970r. Honors Work in Information Studies (1-6). Prerequisites: Member of the university honors program and information studies major. Course provides an opportunity for students to engage in independent and original research in a specialized area beyond the current curriculum in information studies. May be repeated to a maximum of nine (9) semester hours. To graduate with honors in information studies, the student must complete six (6) semester hours of course work with at least a "B-" or better and an overall 3.2 GPA or higher.

Graduate Courses

- LIS 5203. Assessing Information Needs (3).
- LIS 5241. International and Comparative Information Service (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 5275. Usability Analysis (3).
- LIS 5313. Design and Production of Media Resources (3).
- LIS 5316. Information Graphics (3).
- LIS 5350. Design and Development of Computer Information Retrieval Systems (3).
- LIS 5362. Design and Production of Network Multimedia (3).
- LIS 5364. Web Site Development and Administration (3).
- LIS 5367. Advanced Web Applications (3).
- LIS 5408. Management of Information Organizations (3).
- LIS 5411. Introduction to Information Policy (3).
- LIS 5413. Seminar in Information Policy (3).
- LIS 5415. Socio-Political Process in Information Studies (3).
- LIS 5426. Planning, Evaluation and Financial Management (3).
- LIS 5484. Introduction to Data Networks for Information Professionals (3).
- LIS 5487. Information Systems Management (3).
- LIS 5489. Network Administration (3).

- LIS 5511. Management of Information Collections (3).
- LIS 5512. School Collection Development and Management (3).
- LIS 5513. Preservation of Information Materials (3).
- LIS 5524. Instructional Role of the Information Specialist (3).
- LIS 5564. Information Needs of Children (3).
- LIS 5565. Information Needs of Young Adults (3).
- LIS 5566. Multicultural Literature and Information 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 5603. Introduction to Information Services (3).
- LIS 5703. Information Organization (3).
- LIS 5711. Cataloging and Classification (3).
- LIS 5736. Indexing and Abstracting (3).
- LIS 5737. Subject Analysis (3).
- LIS 5771. Information and Image Management (3).
- LIS 5782. Database Management Systems (3).
- LIS 5900r. Directed Individual Study (1-3). (S/U grade only.)
- LIS 5916r. Issues in Information Studies (1-3).
- LIS 5945r. Internship (0-12). (S/U grade only.)
- LIS 5971r. Thesis (3-6). (S/U grade only.)
- LIS 6205. Issues in Information Behavior (3).
- LIS 6269. Seminar in Information Science (3).
- LIS 6278. Issues in Theory Development (3-5).
- LIS 6279r. Research in Information Studies (3).
- LIS 6289. Seminar in Education for Information Studies (3).
- LIS 6409. Seminar in Library Administration (3).
- LIS 6662. Seminar in Information Policy (3).
- LIS 6759. Seminar in Intellectual Access (3).
- LIS 6909r. Directed Individual Study (1-8). (S/U grade only.)
- LIS 6911r. Research Collaboration (1-5). (S/U grade only.)
- LIS 6919r. Issues in Information Studies (1-5).
- LIS 6980r. Dissertation (1-12).

For listings relating to graduate course work 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**

Department of INTERIOR DESIGN

SCHOOL OF VISUAL ARTS AND DANCE

Chair: David Butler; *Associate Chair:* Munton; *Associate Professors:* Butler, Koenig, Munton, Myers, Ohazama, Waxman; *Assistant Professor:* Navarro; *Adjunct Faculty:* Brunner, Camp, Field, Slepín, Williams

Interior design is concerned with the design of all interior spaces, both residential and nonresidential, and the total field of environmental design. Students are prepared to meet professional requirements and criteria for the practice of interior design, membership in professional organizations, and licensure (if required). A professional designer was defined by the national accrediting trust, the Foundation for Interior Design Education Research (FIDER), 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 Design is accredited by FIDER 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 drafting and design, graphic presentation of design solutions, history of interiors, and research methods. There is an active student chapter of the American Society of Interior Designers (ASID), the International Interior Design Association (IIDA), and the faculty includes members (allied, professional, and corporate) of ASID, IIDA, the Interior Design Educators Council (IDEC), and the American Institute of Architects (AIA).

The Florida State University produces a *Community College Counseling Manual*, which should be consulted for more specific preparation and requirements. If a student has prior interior design work experience or has taken interior design courses, a portfolio should be submitted to determine placement in the program.

The interior design program offers the bachelor of science (BS) and the bachelor of arts (BA) degrees. Students must consult the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for BA degree requirements.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common prerequisites or approved substitutions necessary for this degree program:

1. CGS 2060 or CGS 1060;
2. CTE X431 or CTE 1401;
3. IND 3020 or IND 1020 or any level two- and three-dimensional design course.

Note: the program requires nine (9) semester hours of art, art history or other art-related courses. These may be taken at any level and may be used to satisfy performing and fine art and/or humanities liberal studies requirements.

Degree Requirements

The undergraduate degree program consists of a minimum of sixty (60) semester hours of course work in interior design, including a minimum of six (6) semester hours of electives. Students are urged to attend professional conferences and lectures as a vital part of the educational process.

Specific degree requirements include the following:

1. Liberal studies: of the thirty-six (36) required and/or twenty-four (24) elective semester hours, nine (9) should be taken in art, art history, or related courses elected by the student. The department is prepared to offer suggestions about related courses. Contact the program chair for further information if needed;
2. Interior design studio courses: twelve (12) semester hours;
3. Technical and graphic design courses: twenty-one (21) to twenty-four (24) semester hours;
4. Related studies include: design process courses, nine (9) semester hours; history of interiors, nine (9) semester hours; and
5. Electives in interior design: six (6) semester hours.

Requirements for Bachelor of Arts Degree (only)

1. Electives in arts-related courses must also meet University humanities requirements;
2. Language requirement is the equivalent of two years of language proficiency (no credit requirement).

Refer to 'The Liberal Studies Program' section in the "Undergraduate Degree Requirements" chapter of this *General Bulletin* for specific degree requirements.

Requirements for a Major in Interior Design

Students are eligible for admission to the professional program in interior design after completing the University liberal studies requirements (see the "Undergraduate Degree Requirements" chapter of this *General Bulletin*). The interior design program is limited access based on an interview with the department chair and a minimum 3.00 GPA. Due to the maximum student/instructor ratio for studio courses, the above requirement must be completed and on record at least four semesters (excluding summer semester) prior to beginning the program. Further information may be obtained from the office of the Department of Interior Design. Junior college transfer students are urged to complete requirements for the associate in arts degree and to seek counsel from community college advisers.

Eligibility for admission to the major also includes completion of the following courses or course types. These core program requirements may be taken as part of liberal studies requirements or electives (please see department advisers for specific information prior to registration each semester) or may be taken as part of the associate in arts degree while enrolled at a qualifying community college (refer to community college counseling manual for specific information): Three (3) semester hours of textiles related to interiors (CTE 1401 or comparable approved course); three (3) semester hours of computer literacy (CGS 2060 or comparable approved course); and nine (9) semester hours of art, art history or other arts related courses. The program suggests a course in two and/or three dimensional studies as part of the arts related requirements. A similar course, however, is offered in the program if not available to students transferring from other colleges.

A specific listing of courses required for the majors in interior design is available from the department. The program maintains a degree of flexibility to meet the student's individual professional objectives. Internship preparation and placements are available for all undergraduate students, and students are urged to elect these studies. A minor is not required but may be obtained in other appropriate areas (departmental advisement required prior to electing a minor).

Students majoring in interior design must maintain the minimum GPA for semester and overall averages. Grades of "C-" and below are not considered passing in any major course work, including electives. Students must also satisfactorily complete portfolio reviews I and II to remain in the program and satisfactorily complete portfolio review III to graduate.

Honors in the Major

The Department of Interior 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 Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

CTE — Clothing and Textiles
IND — Interior Design

Undergraduate Courses

CTE 1401. Basic Textiles (3). Introduction to fibers, fabric structure, and finishes related to selection and care. Interrelationship between textile characteristics, properties, and end use.

IND 3003. Survey of Interior Design (3). For nonmajors. 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 3205. Dimensional Design (3). Exercises and experiences in fundamental design problems, with application of basic elements and principles of design. Creative studio projects in two and three dimensional design building on the graphic and technical design process.

IND 3930r. Special Topics in Interior Design (1–3). May be repeated to a maximum of twelve (12) semester hours.

IND 3949r. Cooperative Education in Interior Design (0). (S/U grade only.) Prerequisite: IND 3930r. Preparation for internship. Student employment in interior design.

Sequence Courses

IND 3306. Interior Design Graphics I (3). Graphic presentation techniques, including 1-point and 2-point perspective refinement and computer application.

IND 4302. Interior Design Graphics II (3). Prerequisite: IND 3306. Pencil and ink techniques used in sketching, rendering and design drawing, with an emphasis on schematics used in problem solving.

IND 4315r. Interior Design Graphics III (3–6). Prerequisite: IND 4302. Marker and color pencil techniques used in interior delineation, with an emphasis on materials and the development of rapid rendering skills. May be repeated to a maximum of six (6) semester hours.

IND 4311r. Interior Design Graphics IV (1–3). Advanced specialized study of contemporary graphic communication techniques with emphasis on individual professional objectives. May be repeated to a maximum of six (6) semester hours.

IND 4101r. History of Interiors I (3). The study of architecture, interior, and furniture design from antiquity through the Renaissance. May be repeated to a maximum of six (6) semester hours.

IND 4131r. History of Interiors II (3). The study of architecture, interior, and furniture design of the 17th and 18th centuries. May be repeated to a maximum of six (6) semester hours.

IND 4161r. History of Interiors III (3). The study of architecture, interior, and furniture design from the 19th century to the present. May be repeated to a maximum of six (6) semester hours.

IND 3404. Technical Design I (3). Introduction to basic technical aspects of interior design. Emphasis on basic drafting skills, drawing types, visualizations, and other essential technical systems in interiors.

IND 4424. Technical Design II (3). Prerequisite: IND 3404. Lecture and studio course covering materials, construction, and working drawings. The focus is on structure, interior materials, millwork, finishes, hardware, and specifications. Drafting and working drawings are emphasized.

IND 4431r. Technical Design III (3). Prerequisite: IND 4424. Advanced technical aspects of interior design. Emphasis on lighting, electrical plans, reflected ceiling plans, measurements, and acoustics. May be repeated to a maximum of six (6) semester hours.

IND 4461r. Technical Design IV (3). Prerequisite: IND 4424. Computer-aided design and drafting (CADD). Emphasis on creation of interior design technical and presentation drawings using computers. May be repeated to a maximum of six (6) semester hours.

IND 3600r. Design Process I (3). (S/U grade only.) The process of creative problem solving with an emphasis on application to the design process, programming, and spatial analysis of space.

IND 4601. Design Process II (3). An exploration of the relationship between humans and their environment through the study of personal and social use of space, proxemics, and spatial analysis of the built environment.

IND 4602r. Design Process III (3). Advanced analysis and research into the theory, philosophy, and professional practice of interior design concepts. May be repeated to a maximum of six (6) semester hours.

IND 4603r. Design Process IV (3). Prerequisite: IND 4601. Advanced specialized study in creative problem solving and research of the design process with emphasis on individual professional objectives. May be repeated to a maximum of twelve (12) semester hours.

IND 3217. Interior Design Studio I (3). Introduction to the fundamental elements and principles of design, design process, problem solving, space planning and specifications.

IND 4218. Interior Design Studio II (3). Prerequisite: IND 3217. Intermediate projects in creative problem solving applied to both residential and contract interiors. Emphasis on graphic communication and presentation.

IND 4227r. Interior Design Studio III (3). Prerequisite: IND 4218. Advanced projects in creative problem solving with emphasis on programming, spatial analysis, and open-office systems.

IND 4228r. Interior Design Studio IV (3). Prerequisite: IND 4227r. Advanced application of the design process with emphasis on individual professional objectives and procedures for portfolio presentation. May be repeated to a maximum of six (6) semester hours.

IND 3525r. Portfolio Review I (2). (S/U grade only.) A faculty review of all student work during the first semester. All students must register for this course in their first semester of registration in design. The course is based upon a knowledge of interior finish materials and internship preparation involving development of a professional portfolio. Satisfactory completion is required for continuation in the program.

IND 4156r. Historical Restoration, Research and Documentation (3–6). The 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 (6) semester hours.

IND 4521. Portfolio Review II (1). (S/U grade only.) A faculty review of all student work during the third semester. All students must register for this course during the same semester they register for IND 4227r, Interior Design Studio III. Continuation in the program is dependent upon a satisfactory grade in this review.

IND 4522. Portfolio Review III (1). (S/U grade only.) A faculty review of all student work after completion of the program. All students must register for this course at the same time as IND 4228r, Interior Design Studio IV. The conferring of a degree in interior design is dependent upon a satisfactory grade in this review.

IND 4905r. Directed Individual Study (1–3). (S/U grade only.) Student has the opportunity 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 (12) semester hours.

IND 4947r. Internship (1–3). Student has the opportunity to pursue experience with design firm or other related field under the direction of a faculty member. May be repeated to a maximum of twelve (12) semester hours.

IND 4970r. Honors in the Major (3). For honors credit, the Department of Interior Design requires a two-term honors program consisting of six (6) thesis or project hours to be counted towards elective credit. Upon meeting The Florida State University's requirements for honors courses, the student will pursue independent creative and academic research as part of the undergraduate program.

Graduate Courses

IND 5005. Survey of Interior Design (5).

IND 5105r. History of Interiors Seminar I (3).

IND 5135r. History of Interiors Seminar II (3).

IND 5165r. History of Interiors Seminar III (3).

IND 5175. History of Designers (2–4).

IND 5235r. Graduate Studio I (4).

IND 5236r. Graduate Studio II (4).

IND 5316r. Design Graphics II (1–4).

IND 5317r. Design Graphics I (4).

IND 5425r. Graduate Technical Design (4).

IND 5435r. Graduate Lighting Seminar (4).

IND 5526. Graduate Portfolio Review II (1). (S/U grade only.)

IND 5528. Graduate Portfolio Review I (1). (S/U grade only.)

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.)

IND 5971r. Thesis (2–6). (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*.

Program in INTERNATIONAL AFFAIRS

COLLEGE OF SOCIAL SCIENCES

Director: Burton M. Atkins, Department of Political Science

The departments of Anthropology, Economics, Geography, History, Modern Languages, Philosophy, Political Science, Religion, Sociology, Urban and Regional Planning, as well as the School of Public Administration and Policy, cooperate in the offering of an interdepartmental major and minor at the undergraduate level. The program is designed to equip students with a fundamental knowledge of the field of international affairs, to acquaint them with the basic methods of approach to the field, and to provide a basis for intelligent observation of international affairs. Employment opportunities are to be found in government service, international organizations (public, private, or non-profit), business, journalism, and teaching.

Requirements for a Major in International Affairs

Majors in international affairs must complete a minimum of thirty-nine (39) semester hours beyond the liberal studies requirements, with a grade of "C-" or better in each course. A minimum cumulative grade point average (GPA) of 2.0 in all course work 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 departments (see below). Coursework must be selected from at least three (3) participating departments. A minimum of twelve (12) semester hours, maximum of eighteen (18) semester hours must be in one department for a departmental concentration. Students may choose to obtain either a bachelor of arts (BA) degree or a bachelor of science (BS) degree, but in both cases must meet the modern foreign language requirement for the bachelor of arts (BA) degree. At least eighteen (18) semester hours must be above 2999. A maximum combined total of twelve (12) semester hours in internship, directed individual study, or upper-division honors in the major may be credited to the major.

Students are advised to coordinate their course work 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 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).

Business Option

A major in international affairs with an emphasis in business may be selected. This option combines regular international affairs courses with a planned series of business courses with a multi-national focus. Students interested in pursuing this option must have prior approval of the director of international affairs. Students are registered in the business courses on a seats available basis. For this reason, approval to pursue the business option must be re-evaluated each semester.

Students pursuing the business option select a minimum of twenty-one (21) semester hours from the approved list for the major, excluding courses from the department of economics. The remaining courses come from a pre-selected sequence of business courses in one of several tracks for either the concentration or emphasis. ECO 2013 and ECO 2023 are required prerequisite courses. A detailed course list with an outline of requirements, registration procedure and prerequisite courses is available in the international affairs program office.

Study Abroad

Students majoring in international affairs are strongly encouraged to participate in the program's summer curriculum offered in Europe. For more information about the European summer program for international affairs majors, contact the Office of International Programs.

Students should consult with the international affairs 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 Program in International Affairs encourages students to take advantage of internships with agencies and businesses in Florida's capital that work in the international arena. International affairs students can also take advantage of internships in Washington D.C. through the Washington Center Program, and in The Republic of Panama through FSU-Panama. 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. Placements must be approved a semester in advance.

Honors in the Major

The Program in International Affairs offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Double Majors

Majors in international affairs may also major in disciplines represented by the participating departments. These double majors, however, may only count nine (9) semester hours of course work toward both of their majors. For example, a double major in international affairs and economics may count ECO 4704, 4713, and ECS 4013 toward a major in international affairs and a major in economics. Any additional economics courses that are counted toward the international affairs major (up to a maximum of eighteen [18] semester hours), however, must **not** also be counted towards the economics major.

Requirements for a Minor in International Affairs

A minor consists of eighteen (18) semester hours beyond the liberal studies requirements with grades of "C-" or better. Work must be taken in at least three (3) participating departments, and all those courses must be from the approved list of courses below. Modern Language courses numbered above 2999 may count toward the minor. Nine (9) of the eighteen (18) semester hours must be numbered above 2999.

A maximum of six (6) semester hours of directed individual studies or internship credits may apply to the minor.

Approved Courses

Note: descriptions of individual courses can be found under the departments in which they are taught.

Anthropology

ANT	2410	Introduction to Cultural Anthropology (3)
ANT	3141	World Prehistory (3)
ANT	3212	Peoples of the World (3)
ANT	4241	Anthropology of Religion (3)
ANT	4274	Political Anthropology (3)
ANT	4302	Sex Roles in Cross-Cultural Perspective (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	4362	Peoples and Cultures of Southeast Asia (3)
ANT	4363	Japanese Society and Culture (3)
ANT	4364	Chinese Society and Culture (3)

Economics

ECO	2000	Introduction to Economics (3)
ECO	2013	Principles of Macroeconomics (3)
ECO	2023	Principles of Microeconomics (3)

ECO 3303	History of Economic Ideas (3)
ECO 3622	Growth of American Economy (3)
ECO 3933	Special Topics in Economics [Chinese Economy] (3)
ECO 4704	International Trade (3)
ECO 4713	International Finance (3)
ECP 3113	Economics of Population (3)
ECP 3302	Economics of Natural Resources, Energy and the Environment (3)
ECP 3322	Economics of Living Marine Resources (3)
ECS 3003	Comparative Economic Systems (3)
ECS 4013	Economics of Development (3)
ECS 4333	Transition of Soviet and Eastern European Economies (3)

Geography

GEA 1000	World Geography (3)
GEA 2210	United States and Canada (3)
GEA 3704	East and Southeast Asia (3)
GEA 4405	Latin America (3)
GEA 4500	Europe (3)
GEA 4520	Britain and Ireland (3)
GEA 4554	Russia and Southern Eurasia (3)
GEO 1331	Environmental Science (3)
GEO 1400	Human Geography (3)
GEO 3540	Economic Geography (3)
GEO 4340	Living in a Hazardous Environment (3)
GEO 4372	Natural Resource Assessment and Analysis (3)
GEO 4420	Cultural Geography (3)
GEO 4471	Political Geography (3)
GEO 4480	Military Geography (3)
GEO 4602	Urban 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 two AMH courses are on the approved list for international affairs majors, namely:

AMH 4510	United States Foreign Relations to 1900 (3)
AMH 4511	Twentieth-Century United States Foreign Relations (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 (12) semester hours of advanced-level course work in one language including two courses in culture and/or literature. Students should consult with the international affairs advisor in modern languages to plan a course of study.

Philosophy

PHI 2010	Introduction to Philosophy (3)
PHI 3420	Philosophy of the Social Sciences (3)
PHM 3331r	Modern Political Thought (3)
PHM 3400	Philosophy of Law (3)
PHM 4340r	Contemporary Political Thought (3)

Political Science

CPO 2002	Introduction to Comparative Government and Politics (3)
CPO 3034	Politics of Developing Areas (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 3512	Political Development in East Asia (3)
CPO 3520	Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3)
CPO 3541	Politics of China (3)
CPO 3553	Politics of Japan (3)
CPO 3614	East European Politics (3)
CPO 3930r	Special Topics in Comparative Government and Politics (1–3)
CPO 4057	Political Violence (3)
INR 2002	Introduction to International Relations (3)
INR 3004	Geography, History, and International Relations (3)
INR 3502	International Organization (3)
INR 3603	Theories of International Relations (3)
INR 3771	Domestic Politics and International Relations (3)

INR 4083	International Conflict (3)
INR 4102	American Foreign Policy (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)
PAD 3003	Public Administration in American Society (3)
PHM 3331r	Modern Political Thought (3)
PHM 4340r	Contemporary Political Thought (3)
POT 3003	Introduction to Political Thought (3)

Religion

REL 1300	Introduction to World Religions (3)
REL 2315	Religions of South Asia (3)
REL 2350	Religions of East Asia (3)
REL 3170	Religious Ethics and Moral Problems (3)
REL 3194	The Holocaust (3)
REL 3335	Hindu Texts and Contexts (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	The Islamic Tradition (3)
REL 3375	Afro-Caribbean Religions (3)
REL 3505	The Christian Tradition (3)
REL 3600	The Jewish Tradition (3)
REL 4333	Modern Hinduism (3)
REL 4541	Modern Protestantism (3)
REL 4564	Modern Roman Catholicism (3)
REL 4613	Modern Judaism (3)

Sociology

SYD 3020	Population and Society (3)
SYG 1000	Introductory Sociology (3)
SYG 2010	Social Problems (3)
SYO 3530	Social Classes and Inequality (3)
SYO 4300	Sociology of Politics (3)
SYO 4550	Comparative Sociology (3)
SYP 3000	Social Psychology of Groups (3)

Urban and Regional Planning

URP 3000	Introduction to Planning and Urban Development (3)
URP 4402	Sustainable Development Planning in the Americas (3)
URP 4618	Planning for Developing Regions (3)
URS 1006	World Cities: Quality of Life (3)

Definition of Prefixes

INR	— International Relations
PAX	— Peace Studies

Undergraduate Courses

INR 3931r. Special Topics (1–3). (S/U grade only.) Topics vary. May be repeated as topics change to a maximum of nine (9) semester hours.

INR 3932r. Special Topics in International Affairs (1–3). Topics vary. May be repeated as topics change to a maximum of nine (9) semester hours.

INR 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

INR 4937r. Honors Work (1–6). May be repeated to a maximum of nine (9) semester hours.

INR 4941r. Internship (3–6). (S/U grade only.) Prerequisites: Fifteen (15) semester hours beyond liberal studies, a cumulative GPA of 3.0 or higher, and permission of the instructor the semester in advance. Internship placements in approved agencies and organizations. Designed to provide practical experience in the area of international affairs. May be repeated to a maximum of six (6) semester hours.

PAX 3100. Peace, Justice, and Conflict (3). This course is designed as an introduction to the academic field of peace studies. It begins with a discussion of traditional approaches to the problem of international war. It then turns to an analysis of the difference between “negative peace,” or the absence of international war, and “positive peace,” which refers to not only the absence of war, but also to the presence of social, economic, and political justice. The course concludes with a discussion of contrasting views of alternative world futures.

PAX 3300. Poverty and Inequality in the Global System (3). This course deals with the social, political, and economic issues which have polarized the world into the “have” and “have not” nations. Special attention in this course is given

to the problems and perspectives of the third world: poverty, economic resources, cultural and political conditions, population growth, food, social service needs, the impact of technology and new modes of communication, developments in educational reform, problems of social change, and the role of third world countries in world politics.

PAX 3930r. Special Topics in Peace Studies (3). Topics vary. May be repeated to a maximum of fifteen (15) semester hours.

PAX 3940. Practicum in Peacemaking (3). (S/U grade only.) Prerequisite: At least one PAX course; Corequisite: 2.5 GPA. Field assignment for work with such agencies as Pax Christi, Florida Clearinghouse for Criminal Justice, Amnesty International, The Tallahassee Peace Coalition, etc.

PAX 4905r. Directed Individual Study (1–3). Prerequisite: At least one PAX course; Corequisite: 2.5 GPA. Supervised reading and research on selected topics in peace studies. May be repeated to a maximum of six (6) semester hours.

Graduate Courses

INR	5906r.	Directed Individual Study (1–3). (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).
PAX	5105.	Peace, Justice, and Conflict (3).
PAX	5305.	Poverty and Inequality in the Global System (3).
PAX	5907r.	Directed Individual Study (1–3). (S/U grade only.)

PAX 5930r. Special Topics in Peace Studies (3).

For listings relating to graduate course work 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**

Interdepartmental ITALIAN STUDIES FLORENCE CENTER MINOR

COLLEGE OF ARTS AND SCIENCES

Coordinator: John B. Brennan (International Programs)

The Italian Studies Florence Center Minor is concerned with 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 Italian Studies

The interdisciplinary minor requires the completion of fifteen (15) semester hours in courses approved by the Italian Studies Florence Center Minor coordinating committee. **At least nine (9) semester hours of approved courses must be taken while the student is in residence at the Florence Study Center.** A maximum of nine (9) semester hours may be counted in any single academic discipline. Students who intend to minor in Italian studies should declare this intention with the Senior Admission/Registration Officer of International Programs at the end of his/her semester in Florence.

The student must have completed at least three (3) semester hours (or the equivalent) in elementary Italian prior to attending the Florence center.

Core Courses

These courses will be counted in the minor whether they are taken on 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	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	Introduction to Greek and Roman Civilization (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)
CLA	4880	Roman Law (3)
EUH	3431	Modern Italy (3)
EUH	4140	Renaissance (3)
EUH	4244	Fascism (3)
ITW	3391r	Italian Cinema (3)
MUS	4241	Italian Language and Diction for Singers (3)
PHH	3061	Medieval and Renaissance Philosophy (3)
REL	3505	The Christian Tradition (3)
REL	4564	Modern Roman Catholicism (3)

and all Italian courses on the **2000 level or above.**

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 a minor in Italian stud-

ies. 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:

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	4211	Early Medieval Art (3)
ARH	4230	Later Medieval Art (3)
CLT	3370	Classical Mythology (3)
EUH	2000	Ancient and Medieval Civilizations (3)
HUM	2221	Humanities: Homer to Gothic (3)
HUM	2235	Humanities: From the Renaissance to the Enlightenment (3)
HUM	4931r	Topics in the Civilization of Britain or Italy (3)
IND	4101r	History of Interiors I (3)

All other courses offered at the Florence center may be counted provided the Florence 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 they are approved by the coordinating committee. To have such courses considered, petition the Coordinating Committee, *University Center A5500*.

**JAPANESE:
see Asian Studies;
Modern Languages
and Linguistics**

**LATIN:
see Classical Languages,
Literature, and Civilization**

Program in LATIN AMERICAN AND CARIBBEAN STUDIES

COLLEGE OF ARTS AND SCIENCES

Director: Santa Arias (Modern Languages and Linguistics); Cooperating Colleges, Schools, and Departments: Anthropology, Business, Communication, Economics, English, Geography, History, Modern Languages and Linguistics, Music, Philosophy, Political Science, Religion, Sociology, and Urban and Regional Planning

This undergraduate program is intended for students with a strong interest in Latin America and the Caribbean. Depending on the areas of emphasis selected, 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. Majors and minors are encouraged to participate in the related University programs in Costa Rica and Panama. **Note:** an average of "C" must be earned for courses taken for each of the following majors.

For more information, please refer to <http://www.fsu.edu/~lacs>.

Requirements for a Major in Latin American and Caribbean Studies

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

The major consists of thirty (30) semester hours beyond the liberal studies requirement to be selected from the approved list of courses taught by the core and affiliated faculty. The complete list is available at <http://www.fsu.edu/~lacs>. At least three of the departments or schools must be represented in courses selected. Students in the major may (but are not required to) choose from among several concentrations. The topical concentrations in the curriculum of the program are the following: business; cultures and civilizations of Latin America; development and political economy; history and culture of the Caribbean; human rights; Latin American arts; and Latino studies. Students with a concentration must have at least nine (9) semester hours in the selected area with courses approved by the advisor. At least twelve (12) of the total major hours must be at or above the 4000 level. To qualify for completion of the major, students also must have completed the initial sequence or equivalent of Spanish, Portuguese or another language considered by the advisor to be relevant to this area of study. (This also may be used to satisfy the College of Arts and Sciences' language requirement.)

Required Minor or Second Major

Students in the major should select a minor (or another major) after consultation with the program director; normally it should be in one of the participating departments or schools. Consult the specific department or school concerning its requirements. A minor is not required if the student is pursuing a second major.

Admission

To be admitted into the program, students must complete at least fifty-two (52) semester hours with an adjusted GPA of 2.0 on all University coursework, and at least eighteen (18) of the required thirty-six (36) total semester hours in liberal studies, including freshman English and mathematics.

Honors in the Major

The program offers honors in the major. For requirements and other information, refer to the "University Honors Program and Honor Societies" chapter in this General Bulletin.

Minor in Latin American and Caribbean Studies

The program offers a four-course minor in Latin American and Caribbean Studies for students majoring in another discipline. The minor is designed for those students who wish to concentrate their work in a major discipline yet maintain a Latin American concentration.

Approved Course

Note: descriptions of the following courses can be found under the individual departments in which they are taught.

The major coursework consists of thirty (30) semester hours (beyond the liberal studies requirement) that are to be selected from, but not necessarily limited to, courses listed below.

Anthropology

ANT	4163	Mesoamerican Archaeology (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)

Economics

ECO	4704	International Trade (3)*
ECO	4713	International Finance (3)*
ECS	4013	Economics of Development (3)*

English

AML	3630	Latino/a Literature in English (3)
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Geography

GEA	4405	Latin America (3)
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History

HIS	4930r	Special Topics in History (3)*
HIS	4935r	Senior Seminar (in History) (3)*
LAH	1093	Latin America: A Cross-Cultural History (3)
LAH	3411	History of Mexico, Central America and the Caribbean (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)

Humanities

HUM	3930r	Humanities: Special Topics (1-3)*
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Latin American and Caribbean Studies

LAS	4905r	Directed Individual Study (3)
LAS	4935	Honors Work (3)

Modern Languages and Linguistics

SPN	3440	Language and Culture in Business (3)
SPN	3520	Cultures of Latin America (3)
SPN	4440	Business Writing in Spanish (3)
SPN	4540r	Regional Cultural Studies (3)
SPN	4740	Hispanic Sociolinguistics (3)
SPN	4930r	Studies in Hispanic Language and Literature (3)*
SPT	3130	Latin American Literature in Translation (3)
SPW	3030	Approaching Hispanic Literature (3)
SPW	3132	Readings from Early Spanish America (3)
SPW	3391r	Hispanic Cinema (3)
SPW	3493	Readings from Modern Spanish America (3)
SPW	4140r	The Poetics of Hispanic Love and Violence (3)*
SPW	4150r	Transatlantic Encounters (3)
SPW	4190r	Special Topics in Hispanic Languages and Literatures (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)
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Philosophy

PHM	3331r	Modern Political Thought (3)*
PHM	3350	Introduction to Marxist Philosophy (3)*
PHM	4340r	Contemporary Political Thought (3)*

Political Science

CPO	3034	Politics of Developing Areas (3)
CPO	3303	Politics of Latin America (3)
INR	4244	Studies in International Politics: Latin America (3)

Religion

REL	4564	Modern Roman Catholicism (3)*
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Sociology

SYD	4700	Race and Minority Group Relations (3)*
SYP	3400	Social Change (3)*
SYO	3530	Social Classes and Inequality (3)*
SYO	4550	Comparative Sociology (3)*

All courses listed above that are marked with an * will count toward either major or minor in Latin American and Caribbean studies if the content deals in part with Latin America and the Caribbean and assigned research papers are written on issues of the region.

Note: at least three of the departments or schools must be represented in courses selected. At least twelve (12) of the total major semester hours must

be at or above the 4000-level. To qualify for completion of the major, the student also must have completed the initial sequence or equivalent of Spanish, Portuguese or another language considered by the advisor to be relevant to this area of study. (This may satisfy the College of Arts and Sciences language requirement.)

Definition of Prefix

LAS — Latin American Studies

Undergraduate Courses

LAS 4905r. Directed Individual Study (3). May be repeated to a maximum of six (6) semester hours when content varies. Can be repeated within same semester.

LAS 4935r. Honors Work (3). Open to participants in the University and department honors program. Participation in a supervised research problem and the production of a paper describing the results of that work. May be repeated to a maximum of nine (9) semester hours.

LAW

COLLEGE OF LAW

Professors: Abbott, Atkinson, Banoff, Christie, Crossley, D'Alemberte, Dodge, Ehrhardt, Gey, Griffith, Hirsch, Jacobs, LeBel, Markell, McHugh, Ruhl, Schroeder, Seidenfeld, Stern, Van Doren, Vinson, Weidner, Yetter; *Associate Professors:* Baldwin, Bank, Garvin, Larson, Lee, Powell, Rossi, Shepherd, Southerland; *Assistant Professors:* Gore, Mitchell; *Associates in Law:* Annino, Busharis, Gertz, Krieger, Stone; *Assistant in Law:* Oh; *Visiting Assistant Professor:* Priester; *Visiting Associate in Law:* Rowe; *Visiting Assistants in Law:* Grippa, Lavia, Piar, Shelley, Wolf; *Richard W. Ervin Eminent Scholar in Law:* Warner; *Edward Ball Eminent Scholar:* Abbott; *Tobias Simon Eminent Scholar:* Tesón; *Professors Emeriti:* Dickson, Kennedy, Morse, Oeltjen, Slagle, VanDercreek

The College of Law educates students for the practice of law and develops in them the breadth of vision and qualities of character necessary for meeting the full responsibilities of the legal profession. Its one aim is excellence in the preparation of students so that they will acquire the knowledge, comprehension, skills, and judgment essential to the performance of legal services in a complex and rapidly changing society. The College of Law prepares highly qualified graduates for positions as counselors, advocates, judges, law-oriented business persons, researchers, teachers, and philosophers of the law.

For further details of degree requirements, plus a description of the college and its opportunities, refer to the College of Law's website at <http://www.law.fsu.edu>.

Definition of Prefix

LAW — Law

Graduate Courses

LAW	5000.	Contracts I (2–3).
LAW	5001.	Contracts II (2–3).
LAW	5100.	Criminal Law and Procedure (4).
LAW	5300.	Civil Procedure (4).
LAW	5400.	Property I (2–3).
LAW	5402.	Property II (2–3).
LAW	5501.	Constitutional Law I, II (3, 3).
LAW	5502.	
LAW	5700.	Torts (4).
LAW	5792.	Legal Writing and Research I, II (2, 2).
LAW	5793.	
LAW	6010.	Sales and Leases (2–3).
LAW	6020.	Commercial Paper (2).
LAW	6030.	Secured Transactions (2–3).
LAW	6035.	Commercial Law Survey (1–4).
LAW	6060.	Business Associations (4).
LAW	6062.	Agency and Partnership (3).
LAW	6080.	Insurance Law (2–3).
LAW	6235.	Women and the Law (3).
LAW	6260.	International Law (3).
LAW	6261.	International Business Transactions (3–4).
LAW	6302.	Federal Jurisdiction (3).
LAW	6310.	Alternative Dispute Resolution (2–3).
LAW	6312.	Mediation (3).
LAW	6315.	Arbitration (3).
LAW	6321.	Remedies (3).
LAW	6330.	Evidence (4).
LAW	6420r.	Land Transfer (2–3).
LAW	6430.	Gratuitous Transfers (4).
LAW	6460.	Land Use Regulation (3).
LAW	6470.	Environmental Law (3).
LAW	6480r.	Natural Resources Law (2–3).
LAW	6520.	Administrative Law (3).
LAW	6524.	Statutory Interpretation (3).
LAW	6530.	Local Government Law (3).

LAW	6545.	Employment Law Survey (3–4).
LAW	6550.	Antitrust Law (2–3).
LAW	6555.	Law and Economics (3).
LAW	6571.	Intellectual Property I (2–3).
LAW	6572r.	Intellectual Property II (2–3).
LAW	6600r.	Taxation (3–4).
LAW	6610.	Corporate Tax (2–4).
LAW	6618.	Taxation of Business Entities (3).
LAW	6620.	Estate and Gift Tax (3).
LAW	6670.	Real Estate Transactions (3).
LAW	6702r.	Products Liability (2–3).
LAW	6703.	Advanced Torts (2–3).
LAW	6705.	Worker's Compensation (2–3).
LAW	6720r.	Health Law and Policy (2–3).
LAW	6765.	Fundamental Financial Concepts (2–3).
LAW	6794.	Writing Skills (3).
LAW	7036.	Commercial Law Seminar (2).
LAW	7040.	Consumer Law (2–3).
LAW	7050.	Creditors' Rights (3).
LAW	7054.	Bankruptcy Policy Seminar (2).
LAW	7055.	Corporate Reorganization (2).
LAW	7064.	Corporate Finance (3).
LAW	7085.	Banking Law (3).
LAW	7111.	Constitutional Criminal Procedure I (2–3).
LAW	7113.	Constitutional Criminal Procedure II (2–3).
LAW	7116.	Florida Criminal Practice (2–3).
LAW	7210.	Jurisprudence (2).
LAW	7215.	Judicial Biography (2–3).
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	7236.	Reproductive Rights (3).
LAW	7237.	Diversity and the Constitution (2–3).
LAW	7245.	Seminar in Law and Literature (2). (S/U grade only.)

LAW 7246. Lawyers and Literature (2–3).	LAW 7476. Law of the Sea (2–3).	LAW 7680r. International Tax (2–3).
LAW 7250. Comparative Law (2–3).	LAW 7477. Environmental Issues in Business Transactions (2–3).	LAW 7704r. Mass Tort Litigation (2–3).
LAW 7252. Comparative Criminal Procedure (2–3).	LAW 7481. Energy Law and Policy (2–3).	LAW 7710. Family Law (3).
LAW 7262. International Trade (2–3).	LAW 7482. Endangered Species Protection Law (2–3).	LAW 7716. Florida Dissolution of Marriage (3).
LAW 7264. Immigration Law (2–3).	LAW 7503. State Constitutional Law (3).	LAW 7722. Bioethics and the Law (3).
LAW 7266. International Litigation (2).	LAW 7504. Supreme Court Roleplay (2–3).	LAW 7723. Genetics, Ethics, Law and Policy (2–3).
LAW 7268. International Environmental Law (2–3).	LAW 7510r. Civil Rights (2–3).	LAW 7730. Admiralty Law (2–3).
LAW 7270. Native American Law (2–3).	LAW 7511r. First Amendment (2–3).	LAW 7750. Professional Responsibility (3).
LAW 7285. Spanish for Lawyers (2–3).	LAW 7512. Church and State (2–3).	LAW 7760. Accounting and the Law (2–3).
LAW 7303. Florida Practice (2).	LAW 7515r. Disability Law (2–3).	LAW 7795. Advanced Writing Skills: Appellate Briefs (2).
LAW 7305. Litigation Seminar (2).	LAW 7521. Florida Administrative Practice (3).	LAW 7910r. Directed Individual Study (1–5). (S/U grade only.)
LAW 7307. Advanced Civil Procedure (2–3).	LAW 7549. Employment Discrimination (3).	LAW 7915. Legislative Policy Studies (1–3).
LAW 7311. Dispute Resolution Seminar (2).	LAW 7552. Economic Regulation of Business (2–3).	LAW 7930r. College of Law Special Topics (1–5).
LAW 7335. Evidence Seminar (2).	LAW 7560. Securities Regulation (3).	LAW 7940r. Clinical Orientation (1–2). (S/U grade only.)
LAW 7340. Conflict of Laws (3).	LAW 7565. Securities Litigation Seminar (2).	LAW 7945r. Practicum (1). (S/U grade only.)
LAW 7360. Trial Practice (2). (S/U grade only.)	LAW 7574. International Aspects of Intellectual Property (2–3).	LAW 7949r. Clinical Law Programs (1–15). (S/U grade only.)
LAW 7365. Arbitration Practice (2). (S/U grade only.)	LAW 7575. Entertainment Law (3).	LAW 7950r. Law Review (1–5). (S/U grade only.)
LAW 7422. Commercial Transactions (2).	LAW 7581. Sports Law (2).	LAW 7951r. Moot Court Competition (1–3). (S/U grade only.)
LAW 7424. Oil and Gas Law (2).	LAW 7613. Taxation of Business Entities II (2–3).	
LAW 7451. Estate Planning (2).	LAW 7660. Tax Policy (2).	
LAW 7471. Environmental Torts (3).		
LAW 7475. Coastal and Ocean Law (2–3).		

Program in LAW AND SOCIETY

COLLEGE OF SOCIAL SCIENCES

Director: Robert E. Crew, Jr., Office of the Dean, College of Social Sciences

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 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 sciences major. The Program in Law and Society is appropriate for a variety of educational and occupational goals since the program 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 preprofessional program, and a minor or major concentration in law and society is not offered as preparation for law school.

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), plus 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 (12) semester hour minors from two social science departments. One of the minors must be in economics, political science, or sociology, and students must select twelve (12) semester hours for the minor from a department's courses included in the law and society curriculum. Students interested in the social science interdisciplinary major should refer to that departmental entry of this *General Bulletin*.

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)
ECP 4613	Urban Economics (3)

Geography

GEO 4340	Living in a Hazardous Environment (3)
GEO 4372	Natural Resource 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 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)
- POT 3502 Politics and Ethics (3)
- POT 4205 American Political Thought I (3)
- POT 4206 American Political Thought II (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 Family Problems 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 4423 Introduction to Environmental Planning and Resource Management (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, Interdisciplinary Program in Social Science, for additional information.

**LEISURE SERVICES
AND STUDIES:
see Sport Management,
Recreation Management and
Physical Education**



**Interdepartmental
LINGUISTICS MINORS
GRADUATE AND
UNDERGRADUATE**

COLLEGE OF ARTS AND SCIENCES

Curriculum Committee: Joe Ree and Shonna Trinch (Modern Languages and Linguistics)

Linguistics is concerned with the study of the nature of language, and there are linguistic applications in the areas of anthropology, sociology, psychology, mathematics, computer sciences, philosophy, and audiology and speech pathology.

Students (both undergraduate and graduate) who wish to minor in linguistics should choose a minor adviser from the members of the linguistics

curriculum committee (listed above) who will 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 (12) semester hours from the linguistics courses listed below; two of these must be core courses.

Core Courses

- LIN 3041, 4030, 4040, 4512 or 4905.

Other Courses

- ANT 4640; LIN 3710, 4930, 5772; PHI 3220; EXP 4640.

Graduate

Graduate students in linguistics must take at least fifteen (15) semester hours from the linguistics courses listed below; two of these must be core courses.

Core Courses

- LIN 5035 or 5045, 5510.

Other Courses

- LIN 5772, 5908r, 5932; SPN 5805.

**LINGUISTICS:
see also Modern Languages
and Linguistics; Anthropology;
Communication Disorders;
English; and Psychology**

Department of MANAGEMENT

COLLEGE OF BUSINESS

Chair: Dan Voich, Jr.; *Professors:* Anthony, Ferris, Fiorito, Hoffman, Kacmar, Lamont, Martinko, Perrewé, Stepina, Voich, Wilkens; *Associate Professors:* Ketchen, Kuhn, Matherly; *Assistant Professors:* Combs, Douglas, Hochwarter; *Assistants:* O'Connor, Ryals, Simmons, Trammell; *Frances Eppes Professor of Management:* Ferris; *J. Frank Dame Professor of Management:* Fiorito; *Charles A. Rovetta Professor of Management:* Kacmar

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, as well as strategic planning, 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 personnel/human resource assistants.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in General 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; and 5) the major area requirements for general management majors. **Note:** to be eligible to pursue a general management major, students must meet the admission requirements of the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All general management majors must complete the following five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All general management majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).

Plus three (3) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAR	3700	Professional Selling (3).
QMB	3200	Quantitative Methods for Business Decisions (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All general management majors must complete eight (8) 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	4605	Cross Cultural Management (3).
MAN	4701	Business and Society (3).
MAN	4752	Competitive Dynamics (3).

Plus four (4) electives from the following list of courses:

MAN	4143	Contemporary Leadership Challenges (3).
MAN	4201	Organizational Analysis and Change (3).
MAN	4401	Management of Labor and Industrial Relations (3)
MAN	4441	Negotiation and Conflict Management (3).
MAN	4631	International Strategic Management (3).
MAN	4930r	Special Studies in Business (3).
MAR	3461	Principles of Purchasing (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.

Note: to be eligible to pursue a human resource management major, students must meet the admission requirements of 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 five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All human resource management majors must complete five (5) courses as follows. Each course selected must be completed with a grade of “C–” or better.

MAN 4720	Strategic Management and Business Policy (3).
QMB 3200	Quantitative Methods for Business Decisions (3).
Plus three (3) electives from the following list of courses:	
FIN 3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT 3240	Managing Service Organizations (3).
ISM 3011	Introduction to Management Information Systems (3).
MAN 3504	Services Operations Management (3).
MAN 3600	Multinational Business Operations (3).
MAR 3700	Professional Selling (3).
REE 3043	Real Estate (3).
RMI 3011	Risk Management/Insurance (3).

Major Area Requirements

All human resource management majors must complete eight (8) 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 4320	Staffing (3).
MAN 4390	Current Issues in Human Resource Management (3).
MAN 4401	Management of Labor and Industrial Relations (3).

Plus four (4) 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 4350	Training and Development (3).
MAN 4441	Negotiation and Conflict Management (3).
MAN 4605	Cross Cultural Management (3).
RMI 4135	Employee Benefit Plans (3).

Definition of Prefixes

GEB	—	General Business
MAN	—	Management

Undergraduate Courses

GEB 1030. Introduction to Careers in Business (3). (S/U grade only.) This course is designed for freshmen and 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.

GEB 3213. Business Communications (3). Prerequisite: Must be upper division level business major. The course is designed to help business students develop the writing, verbal, and interpersonal skills that are necessary for a successful business career.

MAN 3025. Concepts of Management (3). Prerequisites: MAC 1141; ACG 2021; ECO 2023; and a behavioral science course. Introduction to the nature and process of management, with emphasis upon management of physical and human resources. (Not required for management or human resource management majors.)

MAN 3240. Organizational Behavior (3). Behavioral concepts, techniques, and applications for managing human resources in all types of organizations.

MAN 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

MAN 4143. Contemporary Leadership Challenges (3). Prerequisite: MAN 3240. 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. Analysis of concepts and processes for affecting change in organizations.

MAN 4301. Human Resource Management (3). Prerequisite: MAN 3240. Survey of the human resource management function in organizations. Topics include: selection, recruiting, training, compensation, and performance appraisal.

MAN 4320. Staffing (3). Prerequisites: MAN 3240, 4301. The 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, 4301. The 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, 4301. The 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, 4301. 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. 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. A focus 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. 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 4631. International Strategic Management (3). Prerequisites: ECO 2013, 2023; MAN 3600. Course focuses on the international dimensions of strategic management, including environmental and political issues affecting global competition. Special emphasis is given to the multinational enterprise and strategic options available for effective worldwide competitive advantage.

MAN 4680r. Explorations in International Management (3). Prerequisites: ECO 2013, 2023; MAN 3600. Selected topics in international management will vary depending upon the instructor for the course. Topics such as cultural influences on management, international personnel management, and other related management topics will be discussed. May be repeated to a maximum of six (6) semester hours.

MAN 4701. Business and Society (3). Prerequisite: MAN 3240. 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). Prerequisites: FIN 3403; MAN 3240; MAR 3023. Case analysis of business and management problems for the formulation of managerial strategies and policies.

MAN 4752. Competitive Dynamics (3). Prerequisite: MAN 4720. Course applies the tools and concepts acquired in other business and management courses in a hands-on business simulation of competitive dynamics with an eye toward contemporary, emerging competitive issues confronting business senior executives and owners.

MAN 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine (9) semester hours.

MAN 4930r. Special Studies in Business (1–3). Prerequisite: Consent of the instructor. May be repeated to a maximum of nine (9) semester hours as topics vary.

MAN 4941. Field Study in Management (1–3). (S/U grade only.) Prerequisite: Consent of instructor. Provides student 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 (9) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

Graduate Courses

MAN 5204.	Organization Theory (3).
MAN 5245.	Organizational Behavior (3).
MAN 5285.	Organizational Change and Development (3).
MAN 5305.	Personnel/Human Resource Management (3).
MAN 5721.	Strategy and Business Policy (3).
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 5940r.	Supervised Teaching (1–3). (S/U grade only.)
MAN 6235r.	Doctoral Seminar in Organizational Theory (1–3).
MAN 6275r.	Organization Behavior I: Literature (1–3).
MAN 6795r.	Doctoral Seminar in Strategic Management: Selected Topics (3).
MAN 6911r.	Supervised Research (1–3). (S/U grade only.)
MAN 6932.	Doctoral Seminar in Strategic Management (3).
MAN 6933r.	Doctoral Seminar in Organizational Behavior (3).
MAN 6934.	Doctoral Seminar in Management Research: Data Analysis and Interpretation (3).
MAN 6941r.	Supervised Teaching (1–3). (S/U grade only.)
MAN 6979.	Seminar in Research (3).

For listings relating to graduate course work for thesis, dissertation, and master’s and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of MANAGEMENT INFORMATION SYSTEMS

COLLEGE OF BUSINESS

Chair: David Paradice; *Professors:* George, Mason, Paradice, Stair; *Associate Professor:* Kacmar; *Assistant Professors:* Bush, Chudoba, Dickey, Gallagher, Karahanna, Wasko; *Assistants:* Fisher, Payne, Wells; *Visiting Assistant:* Paul; *Thomas L. Williams, Jr. Eminent Scholar:* George; *Sprint/United Telephone of Florida Professor:* Mason

The management information systems department is the youngest department in the College of Business. It was formed to increase the emphasis on technological education in the business curriculum and to consolidate the teaching of management information systems into one unit. The purpose of the curriculum is to provide the student with a broad understanding of the role and use of managerial technology in the various functional areas of modern organizations. The overall intent is to prepare the student for entry-level positions in medium- and large-size organizations leading to high-level technical or managerial careers in both the public and private sectors.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in Management Information Systems

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. **Note:** to be eligible to pursue a management information systems major, students must meet the admission requirements of 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 five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All management information systems majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
QMB	3200	Quantitative Methods for Business Decisions (3).

Plus two (2) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).

REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

At the time of this printing, all Management Information Systems (MIS) majors must complete the ten (10) 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 class. In all cases, prerequisites to courses must be completed with a grade of "C-" or better before subsequent courses may be entered.

CGS	3403	Introduction to COBOL Programming for Business (3).
CGS	3408	Introduction to Programming with the C Language (3).
CGS	4404	Advanced Application Development (3).
CGS	4406	Object Oriented Programming in C++ (3).
ISM	3003	Foundations of Management Information Systems (3).
ISM	4113	Management Information Systems Analysis and Design (3).
ISM	4117	Decision Support and Expert Systems Management (3).
ISM	4212	Information for Operating Control and Data Management (3).
ISM	4220	Information and Communications Systems Management (3).
ISM	4300	Technology Management (3).

Definition of Prefixes

CGS	—	Computer General Studies
ISM	—	Information and Management Sciences
MAN	—	Management
QMB	—	Quantitative Methods in Business

Undergraduate Courses

CGS 3403. Introduction to COBOL Programming for Business (3). Prerequisite: CGS 2100. Study of the use of COBOL in business and government organizations. Specific programs are developed to solve typical management and data processing problems. Structured approaches to problems and design solutions are discussed in detail. Also taught by the Department of Computer Science.

ISM 3003. Foundations of Management Information Systems (3). Prerequisite: CGS2100. This course is an overview of the MIS profession and the role of MIS in organizations. Topics include the introduction to fundamental techniques and methods used in the analysis of business processes for which computer-based information systems are designed and managed.

ISM 3004. Information Resources Management for Business (4). This course provides coverage of information processing concepts and technology and computer applications in a business environment using microcomputers. The importance of end-user computing in modern business organizations is stressed and the information infrastructure of typical business firms is studied.

ISM 3011. Introduction to Management Information Systems (3). Prerequisite: CGS 2100. Introduction to management information systems concepts, with emphasis on describing information requirements, managing information resources, and applying information processing technology to business and management.

MAN 3504. Services Operations Management (3). Prerequisites: CGS 2100; QMB 3200. Methodology and theory of the design and management of productive systems, especially in the services industry. Includes quantitative techniques and procedures for process analysis.

MAN 3520. Total Quality Management (3). Prerequisite: QMB 3200. Strategy and techniques at total quality management systems. Includes design and implementation of TQM in public and private organizations.

QMB 3200. Quantitative Methods for Business Decisions (3). Prerequisites: CGS 2100; MAC 2233; STA 2023. An examination of classical and modern decision-making techniques based on probabilistic concepts. Emphasizes applications to all areas of business.

CGS 4404. Advanced Application Development (3). Prerequisites: CGS 3403; ISM 4113. This course presents advanced application development methodology, technology and tools. Students work on teams in the applied study of complex systems development problems and cases.

ISM 4113. Management Information Systems Analysis and Design (3). Prerequisite: ISM 3003. In-depth treatment of the theory and practice of management information systems including information requirements analysis, design methodology, and system implementation considerations. For MIS majors only.

ISM 4117. Decision Support and Expert Systems Management (3). Prerequisite: ISM 4212. The design, development, implementation, and management of decision support and expert systems; includes concepts of data management, modeling decision support systems, and decision making. For MIS majors only.

ISM 4212. Information for Operating Control and Data Management (3). Prerequisite: ISM 4113. Covers the theory, techniques, and applications of information management and control including organizations as information-processing systems and executive support systems. For MIS majors only.

ISM 4220. Information and Communications Systems Management (3). Prerequisite: ISM 4113. 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 4220. 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 4905r. Directed Individual Study (1-3). May be repeated to twelve (12) 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 (9) semester hours as content varies. Prerequisites will vary depending on the topic of the course; refer to department for details.

ISM 4970r. Honors Thesis (1-6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine (9) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

MAN 4521. Distribution and Logistics Management (3). Prerequisite: CGS 2100. The study of distribution and logistics systems which move physical resources from production to consumers; includes emphasis on both products and services.

MAN 4941. Field Study in Management (1-3). (S/U grade only.) Prerequisite: Consent of instructor. Provides student with on-the-job experience in major area.

QMB 4700. Operations Research for Managerial Decisions (3). Prerequisite: MAN 3504. Quantitative analysis for management decisions involving such topics as linear programming, inventory control, queuing, and project management.

Graduate Courses

ISM 5006. Communication and Decision Processes (3).

ISM 5021. Information and Technology Management (3).

ISM 5046. Social and Organizational Issues in MIS (3).

ISM 5123. Information Systems Analysis and Design (3).

ISM 5206. Database Development and Management (3).

ISM 5226. Network Development and Management (3).

ISM 5315. Project Management (3).

ISM 5475. Client/Server Applications (3).

ISM 5906r. Directed Individual Study (1-3). (S/U grade only.)

ISM 5907r. Information and Systems Management: Special Studies in 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).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of MARKETING

COLLEGE OF BUSINESS

Chair: Dennis Cradit; *Professors:* Cradit, Cronin, Downs, Flynn, Giunipero, Goldsmith, Hofacker, Showalter, Stith, Zenz; *Associate Professors:* Brusco, Freiden; *Assistant Professors:* Hartline, Knight, Overby, Raman; *Lecturer:* Brennan; *Richard M. Baker Professor of Marketing:* Goldsmith

The marketing curriculum is designed to prepare students for successful careers in the many phases of marketing in both the public and private sectors. Courses are oriented toward: 1) problem solving and management decision making; 2) providing basic knowledge of the tools, types of organization, and institutions utilized in performing the various marketing functions; and 3) developing the ability to plan and implement marketing policy, strategy, and procedures.

The total curriculum is designed to impart knowledge and competence in marketing that will enable graduates to progress well in the early stages of their careers; develop the ability to analyze, plan, organize, coordinate, motivate, and control; think creatively; communicate effectively; and gain broad perspectives essential to the attainment of ownership or top management responsibilities.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;

4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

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; and 5) the major area requirements for marketing majors.

Note: to be eligible to pursue a marketing major, students must meet the admission requirements of 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 five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All marketing majors must complete five (5) 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 major area requirements.

ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
QMB	3200	Quantitative Methods for Business Decisions (3).

Plus two (2) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All marketing majors must complete eight (8) 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 major area requirements and part of the general business breadth requirements.

MAR	3503	Behavioral Sciences Implications for Marketing (3).
MAR	4613	Marketing Research (3).
MAR	4880	Electronic Marketing (3).
QMB	4700	Operations Research for Managerial Decisions (3).

Plus four (4) electives from the following list of courses (electives must be chosen to complete one of the three concentrations described below):

MAN	3600	Multinational Business Operations (3).
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MAR	3231	Retailing Management (3).
MAR	3323	Promotional Management (3).
MAR	3461	Principles of Purchasing (3).
MAR	3700	Professional Selling (3).
MAR	3711	Sports, Recreation, and Entertainment Marketing (3).
MAR	4156	Multinational Marketing (3).
MAR	4203	Logistics and Supply Chain Management (3).
MAR	4403	Sales Management (3).
MAR	4453	Industrial Marketing (3).
MAR	4462	Seminar in Purchasing/Materials Management (3).
MAR	4614	Advanced Marketing Research (3).
MAR	4831	Price and Product Management (3).
MAR	4840	Services Marketing (3).
MAR	4860	Customer Relationship Management (3).
MAR	4939r	Marketing Seminar (3).

Students must select their marketing electives to complete one of the following concentrations:

Service Operations. Take MAR 4840 plus any three (3) other marketing electives from the list above.

Supply Chain Management. Take MAR 3461, and MAR 4203 plus any two (2) other marketing electives from the list above.

Sales and Customer Relationship Management. Take MAR 4403 and MAR 4860 plus any two (2) other marketing electives from the list above.

Definition of Prefixes

GEB	—	General Business
MAN	—	Management
MAR	—	Marketing
QMB	—	Quantitative Methods in Business

Undergraduate Courses

MAR 3023. Basic Marketing Concepts (3). Prerequisites: ECO 2023, one behavioral science course. 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). Prerequisite: MAR 3023. Intensive training in the rudiments of retail operations.

MAR 3323. Promotional Management (3). Prerequisite: MAR 3023. Focuses on issues related to management of promotional tools including advertising, personal selling, sales promotion, public relations, and publicity.

MAR 3461. Principles of Purchasing (3). Prerequisite: MAR 3023. Introduction to the concepts, principles, and techniques of purchasing physical resources for all types of organizations.

MAR 3503. Consumer Behavior (3). Prerequisite: MAR 3023. Acquaints the student with the fundamental theories from the behavioral sciences and applied to the consumer decision making process.

MAR 3700. Professional Selling (3). Prerequisite: MAR 3023. This course addresses the application of behavior and persuasive communication theories, and the techniques necessary to develop effective personal selling skills within organizations.

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.

Business Majors Only

MAR 4156. Multinational Marketing (3). Prerequisites: MAR 3023; MAN 3600. 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). Prerequisites: MAN 3023; MAR 3023; QMB 4700. 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 4232. Advanced Retailing Management (3). Prerequisite: MAR 3231. Formulation of comprehensive, integrated marketing strategies for retail firms in contemporary environments.

MAR 4403. Sales Management (3). Prerequisite: MAR 3023. Exposes the student to concepts, activities, and analysis pertaining to sales and the management of the sales force.

MAR 4453. Industrial Marketing (3). Prerequisite: MAR 3023. This course focuses on those marketing activities involved in the marketing of products and services to organizations that use products and services in the production of consumer or industrial goods and services.

MAR 4462. Seminar in Purchasing/Materials Management (3). Prerequisite: MAR 3461. Advanced concepts in purchasing and materials management. Emphasis is on recent research and current practice to achieve strategic sourcing objectives.

MAR 4613. Marketing Research (3). Prerequisites: MAR 3023; QMB 3200. Examines marketing research as an information-providing activity for the purpose of management decision making.

MAR 4614. Advanced Marketing Research (3). Prerequisite: MAR 4613. Provides experience in designing and conducting actual marketing research studies.

MAR 4831. Price and Product Management (3). Prerequisite: MAR 3023. Familiarizes students with the scope and complexity of the marketing executives product and pricing management problem.

MAR 4840. Services Marketing (3). Prerequisite: MAR 3023. Examination of marketing in the service industries with particular emphasis on the unique aspect of services marketing, the service marketing mix, and the implementation of service strategies.

MAR 4860. Customer Relationship Management (3). Prerequisites: MAN 3504; MAR 3023; QMB 4700. 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 4880. Electronic Marketing (3). Prerequisite: MAR 3023. This course examines internet communication, direct selling through electronic commerce, and internet-based promotional communications.

MAR 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

MAR 4939r. Marketing Seminar (3). Prerequisite: MAR 3023. Various topics taught by different instructors each semester. May be repeated to a maximum of six (6) semester hours.

MAR 4941. Internship in Marketing (1-3). (S/U grade only.) Prerequisites: MAR 3023, MAN 3010. Consent of instructor required. Provides student with on-the-job experience in major area.

MAR 4970r. Honors Thesis (3). Prerequisites: MAR 3023, admission to the honors in the major program. May be repeated to a maximum of six (6) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

Graduate Courses

GEB 5125.	Seminar in Small Business Analysis and Assistance (3).	MAR 5815.	Marketing Management (3).	MAR 6828.	Seminar in Marketing: Elements and Integration of Marketing Strategy (3).
GEB 5446.	The Business Context (3).	MAR 5816.	Marketing Strategy (3).	MAR 6918r.	Supervised Research (1–3). (S/U grade only.)
GEB 6904r.	Readings for Examination (1–12). (S/U grade only.)	MAR 5907r.	Directed Individual Study (1–3). (S/U grade only.)	MAR 6919r.	Supervised Teaching (1–3). (S/U grade only.)
MAN 5525.	Quality Management (3).	MAR 5908r.	Special Studies in Management (1–3).	MAR 6979.	Seminar in Marketing: Research Methodology (3).
MAN 5501.	Operations Management (3).	MAR 5917r.	Supervised Research (1–3). (S/U grade only.)	QMB 5355.	Quantitative Methods for Managerial Decisions (3).
MAN 5601.	Multinational Business Operations (3).	MAR 5935r.	Special Topics in Marketing (1–3).	QMB 5755.	Studies in Operations Research (3).
MAN 6930.	Doctoral Seminar in Productive Systems Management: Planning and Control (3).	MAR 5940r.	Supervised Teaching (1–3). (S/U grade only.)	QMB 5845.	Simulation of Dynamic Systems (3).
MAN 6931.	Doctoral Seminar in Productive Systems Management: Strategy and Design (3).	MAR 5971r.	Thesis (3–6). (S/U grade only.)	QMB 5906r.	Directed Individual Study (1–3). (S/U grade only.)
MAR 5409.	Business-to-Business Sales and Marketing (3).	MAR 6507.	Quantitative Methods I: Measurement, Scaling, and Choice (3).	QMB 5907r.	Special Studies in Management (1–3).
MAR 5465.	Purchasing and Supply Chain Management (3).	MAR 6575.	Seminar in Marketing: Selected Topics in Consumer Behavior (3).	QMB 5935r.	Special Topics in Quantitative Methods (1–3).
MAR 5505.	Consumer Behavior (3).	MAR 6658.	Quantitative Methods II: Psychometric and Econometric Approaches to Marketing (3).		
MAR 5726.	Electronic Business in Supply Chain Marketing (3).	MAR 6665.	Seminar in Marketing Models (3).		
		MAR 6817.	Seminar in Marketing Management (3).		

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of MATHEMATICS

COLLEGE OF ARTS AND SCIENCES

Chair: DeWitt Sumners; *Associate Chair:* Bowers; *Associate Chair for Graduate Studies:* Huckaba; *Director of Basic Mathematics:* Stiles; *Director of Applied Mathematics:* Navon; *Director of Financial and Actuarial Mathematics:* Case; *Professors:* Aluffi, Bellenot, Bowers, Bryant, Case, Erlebacher, Gilmer, Gunzberger, Heil, Huckaba, Hunter, Hussaini, Klassen, Kopriva, Mesterton-Gibbons, Mott, Navon, Nichols, Oberlin, Peterson, Quine, Seppala, Sumners, Tam, Wright, Young; *Associate Professors:* Blumsack, Fenley, Hironaka, Kercheval, Magnan, Mio, Nolder, van Hoeij, Wang; *Assistant Professors:* Aldrovandi, Bertram, Hurdal; *Visiting Assistant Professors:* Hurdal, Sussman; *Service Professor:* Novinger; *Associates in Mathematics:* Blackwelder, Boyd, Burgess, Dodaro, Grigorian, Wooland; *Assistants in Mathematics:* Kirby, Rogers; *Professors Emeriti:* Heerema, Howard, Kreimer, McWilliams; *Courtesy Professors:* Banks, Beaumont, Chen, Gallivan, Lacher, Levitz, Lin, Loper, Mascagni

The Department of Mathematics 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 degree in mathematics can be regarded as the central component of a liberal education, either for its own sake or as preparation for professional study in another field or mathematics graduate study. Students can look forward to employment in an industrial or financial firm, a governmental agency, or teaching in a secondary, college or university institution. Actuarial Science students benefit

from the eagerness of actuarial employers to reach them. Each year a dozen representatives of insurance, consulting and government firms visit the department to describe the field and to interview students for both summer internships and jobs.

A student may obtain a baccalaureate degree with a major in mathematics, applied mathematics or actuarial science. Students who intend to pursue studies in higher mathematics should choose either the mathematics major or the applied mathematics major. The major in actuarial science is strongly oriented toward professional advancement in the insurance and financial sectors.

A directed program to fit special interests may be followed by a student with a specialized objective in mathematics, provided that the program is advocated by the student's faculty advisor and approved by the chair of the department before the student has enrolled in any 4000-level courses.

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.

The department offers several opportunities for its majors to participate in learning activities outside the classroom. The Florida State University Mathematical Society provides a venue in which undergraduate students and faculty meet monthly to share interests and enjoy an accessible lecture by a faculty member or a distinguished visitor. The Florida State Student Actuarial Society hosts presentations by actuaries; the students share experiences about summer internships and prepare for actuarial examinations. The organization's *Resumé Book* assists matching students with jobs, 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 As-

sociation of America. A fall seminar is held for students to become familiar with Putnam-style problems and to hone their skills at solving them. Each year the local chapter of the national mathematics honorary society Pi Mu Epsilon inducts students of high academic achievement from each of the three majors. All of these activities offer opportunities to socialize while learning.

Departmental Programs

The Department of Mathematics offers bachelor's, master's and doctoral degrees. At the undergraduate level there are degree programs in mathematics and actuarial science. (See also "Program in Actuarial Science," this *General Bulletin*.) Within the degree program in mathematics there are major options in mathematics, applied mathematics, and biomedical mathematics.

Academic Performance

A grade of "C–" or better is required in all courses to be counted toward these degrees. A student who has accumulated more than five grades below "C–" (including grades of U) in mathematics or computer science courses taken for college credit at The Florida State University or elsewhere, whether repeated or not, will not be permitted to continue as a major in the department.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the

‘Common Prerequisites Manuals’ subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for these University degree programs. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for each degree program:

Mathematics

1. Three (3) semester hours of COP XXXX (computer language: Pascal, FORTRAN, C, C+, or C++);
2. MAC X311;
3. MAC X312;
4. MAC X313;
5. Successful completion of two laboratory-based science courses for respective science majors: BSC XXXX/XXXXL or CHM XXXX/XXXXL or PHY XXXX/XXXXL.

Actuarial Science

1. Three (3) Semester hours of COP XXXX (computer language: FORTRAN, C, C+, C++, or Pascal)
2. MAC X311;
3. MAC X312;
4. MAC X313;
5. ECO X013 and ECO X023.

Students are encouraged to complete the courses ACG X021, MAP X302 and STA X122 in their first two years.

A grade of “C–” or better is required in all courses to be counted towards the degrees.

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 website, revisions to the degree guidelines since this printing.

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 Course Prerequisites, including the physics or economics requirements, during the first two college years.

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 the mathematics, applied mathematics, or actuarial science major must be taken at The Florida State University unless specifically exempted by the chair on written request.

Baccalaureate Degree in Mathematics

Courses required for each of the degree options in mathematics are MAP 2302, MAS 3105, STA 4442, and a course that exhibits proficiency in a scientific computer programming language. Courses in C, C++, FORTRAN, Java, or another approved higher-level language will provide this background. Successful completion of MAD 3703 will also suffice. Representative requirements for the three mathematics major options follow. Students should refer to the departmental website (<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 Course Prerequisites and the courses above, the student will complete PHY 2048C or some other approved calculus-based natural or social science course and will complete the courses MAS 4302; MAA 4224 or 4226; and four of the following, of which at least two must be at the 4000 level: MAA 4227, 4402; MAD 2104, 3105, 3703, 4704; MAP 4103, 4153, 4180, 4202, 4216, 4331, 4341, 4342; MAS 4106, 4203, 4303; MAT 4934; MGF 3301; 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 must be completed. Additional computer languages are recommended.

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 Course Prerequisites and the courses above, the student will complete PHY 2048C (PHY 2049C is highly recommended) and the courses MAD 3703; MAP 4103 and 4341; CGS 3460; and three of the following: MAA 4224 or 4226, 4227, 4402; MAD 4704; MAP 4153, 4180, 4202, 4216, 4342; MAS 4106; MAT 4934.

Major in Biomedical Mathematics. This new 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 Com-

mon Course Prerequisites, the student will complete collateral science courses including BSC 2010, BSC 2010L, BSC 2011, CHM 1045C, CHM 1045L, PHY 2048C or PHY 2053C, and at least one upper-division course on a list of such courses, typically PCB 3063. No additional minor is required. A computer laboratory on applications of calculus to biology and a 4000-level course in biological modeling are required, along with upper-division mathematics courses from a list of approved courses. Students should consult the departmental office or the website for exact requirements.

Second Majors

A student may complete a second major in another department. Also, a student may complete majors in mathematics and actuarial science or in applied mathematics and actuarial science by completing all of the prerequisite and degree requirements for each selected program.

Baccalaureate Degree in Actuarial Science

In addition to the State of Florida Common Course Prerequisites, there are interdisciplinary degree requirements. The student should obtain information about recent program updates from the departmental website (<http://www.math.fsu.edu>) or academic advisor; these assure the best preparation by allowing for a timely response to recommendations of the actuarial professional societies. Representative requirements include: MAS 3105; MAP 4170, 4175; STA 4442; three (3) repetitions of actuarial tutorial MAT 4930r; and three of the following: MAA 4224 or 4226; MAD 3703; MAP 2302, 4341; MAS 4106; STA 2122, 4203, 4322 or 4853;. The student must also take the following courses in business and economics: ACG 2021, FIN 3403 and 4504, RMI 3011; also required are at least two of the following courses: ECO 4101, 4401, 4421; RMI 4115, 4135, 4224, 4292; FIN 4514. These courses satisfy the requirements for a minor in business and no additional minor is required.

Minor or Second Major

Information concerning acceptable minors for students majoring in a department program is available from the departmental office. The required computer science, physics, and statistics courses are collateral and may be counted toward a minor in the appropriate department.

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 Program and Honor Societies” chapter of this *General Bulletin*.

Requirements for a Minor in Mathematics

A minor in mathematics consists of twelve (12) semester hours in courses with prefixes MAA, MAC, MAD, MAP, MAS, MAT, MGF, MHF, 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.

Definition of Prefixes

MAA	—	Mathematics: Analysis
MAC	—	Mathematics: Calculus/ Precalculus
MAD	—	Mathematics: Discrete
MAE	—	Mathematics: Education
MAP	—	Mathematics: Applied
MAS	—	Mathematics: Algebraic Structures
MAT	—	Mathematics
MGF	—	Mathematics: General/Finite
MHF	—	Mathematics: History/Foundations
MTG	—	Mathematics: Topology and Geometry

Undergraduate Courses

Note: for descriptions of interdisciplinary science courses see the “College of Arts and Sciences” chapter of this *General Bulletin*.

MAC 1105. College Algebra (3). Recommended background: two years of high school algebra. On basis of test scores the student may be required to take a community college course before MAC 1105. 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.

MAC 1114. Analytic Trigonometry (2). Prerequisite: MAC 1105. Trigonometric functions, inverse trigonometric functions and their graphs; identities and conditional equations; solution of triangles; trigonometric form of complex numbers; DeMoivre’s theorem and n th roots; introduction to plane vectors.

MAC 1140. Precalculus Algebra (3). Prerequisite: MAC 1105 or appropriate score on a mathematics placement examination. May be taken concurrently with MAC 1114. Credit must be reduced to two (2) hours for students having a grade of “C–” or better in MAC 1141. (See Credit Note 2 above.) Functions and graphs, with emphasis on 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. Applications, approximation, and methods of proof.

MAC 1147. Precalculus Algebra/Trigonometry (5). Prerequisite: MAC 1105 or appropriate score on a mathematics placement examination. Credit must be reduced to four (4) hours for students who took MAC 1141 and received a grade of “C–” or better. This 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 for the topics in MAC 1147.

MGF 1106. Mathematics for Liberal Arts I (3). Recommended background: two years of high school algebra. Course is not intended for students whose programs require precalculus or calculus courses. Set theory; symbolic logic; counting principles; permutations and combinations; probability; statistics; geometry; applications and history of mathematics.

MGF 1107. Topics in Practical Finite Mathematics (3). Prerequisites: MAT 1033 or suitable placement score. Recommended background: two years of high school algebra. Topics will include 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). Recommended background: two years of high school algebra. 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.

MAC 2233. Calculus for Business (3). Prerequisites: Appropriate score on a mathematics placement examination or MAC 1105 or 1140 (or former course MAC 1141). Not open to students who have credit in MAC 2311 with a grade of “C–” or better. (See Credit Note 2 above.) 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.

MAC 2311. Calculus with Analytic Geometry I (4). Prerequisites: MAC 1147, or MAC 1140 and 1114; or appropriate score on a mathematics placement examination. 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; antiderivatives; 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 MAP 2483, or appropriate score on a mathematics placement examination. 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. 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 1140. Credit is not also allowed for MGF 3301. Mathematical techniques of definition and proof, with application to discrete domains; formal logic; elementary combinatorics; digraphs and relations; graphs, trees, and multigraphs; applications.

MAP 2302. Ordinary Differential Equations (3). Prerequisite: MAC 2312. Not open to students having credit in MAP 3305. Differential equations of the first order, linear equations of the second, systems of first order equations, power series solutions, Laplace transforms, numerical methods.

MAP 2483. Biocalculus (4). Prerequisites: MAC 1114, 1140. Functions as biological models; properties of functions; recurrence relations; sequences, convergence; exponential, logarithmic and trigonometric functions; definite and indefinite integrals; derivatives and partial derivatives; the chain rule and other rules for differentiation; fundamental theorem of calculus; continuous probability distributions, means and variances; biological applications.

MAD 3105. Discrete Mathematics II (3). Prerequisite: MAD 2104. Techniques of definition and logical argument as applied in several areas of discrete mathematics; counting techniques, permutations, combinations; recurrence relations, graph and network algorithms.

MAD 3401. Introductory Numerical Analysis (3). Prerequisites: MAC 2312; competence in a programming language suitable for numeric computations. Polynomial interpolation, data fitting, solutions to nonlinear equations, numerical integration, and differentiation. Not open to mathematics majors.

MAD 3703. Numerical Analysis I (3). Prerequisites: MAC 2312; MAS 3105; FORTRAN or PASCAL or C. Root finding, interpolation and polynomial approximation, numerical differentiation and integration, direct and iterative methods for systems of linear equations.

MAP 3305. Engineering Mathematics I (3). Prerequisite: MAC 2313, or MAC 2312 with a grade of “B–” or better. Not open to students having credit in MAP 2302. Ordinary differential equations, Laplace transform. Linear algebra: determinants, matrices, eigenvalues and eigenvectors. Systems of first-order differential equations.

MAP 3306. Engineering Mathematics II (3). Prerequisites: MAC 2313; MAP 2302 or 3305. Not open to students having credit in MAP 4341. Fourier series and Fourier transforms, introduction to partial differential equations.

MAS 3105. Applied Linear Algebra I (4). Prerequisite: MAC 2312. Gaussian elimination, vector spaces, least squares problems, determinants, eigenvalues and eigenvectors, linear transformations, applications.

MAS 3301. Introduction to Modern Algebra (3). Prerequisites: MAC 2312; MAD 2104 or MAS 3105. Groups, permutations and symmetries, rings, integral domains, properties of the integers, fields and rational numbers. Mathematics majors must take MAS 4302 instead.

MAT 3711. Introduction to Symbolic Computation (3). Prerequisite: MAC 2312. Generalities of programs for symbolic computation; programming mathematics; elementary computer algebra: manipulating polynomials, Groebner bases; elementary computer analysis; integration techniques.

MAT 3930r. Special Topics in Mathematics (1–3). May be repeated to a maximum of twelve (12) semester hours.

MGF 3301. Introduction to Advanced Mathematics (3). Prerequisite: MAC 2312. Credit is not also allowed for MAD 2104. 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 will be emphasized throughout.

MAA 4224. Introduction to Analysis I (3). Prerequisites: MAC 2313; MAS 3105 (Recommended: MGF 3301.) 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.

MAA 4226, 4227. Advanced Calculus I, II (3, 3). Prerequisites: MAC 2313; MAS 3105. Functions, sequences, limits; continuity, uniform continuity; differentiation; integration; convergence, uniform convergence. For strong students with advisor approval only.

MAA 4402. Complex Variables (3). Prerequisite: MAC 2313. Analytic functions, Cauchy-Riemann conditions; complex integration, Cauchy's theorem and integral formula; power series, analytic continuation, Riemann surfaces; residues and applications; conformal mapping.

MAD 4704. Numerical Analysis II (3). Prerequisites: MAD 3703; MAP 2302. Approximation theory, numerical solution of nonlinear systems, boundary value problems and initial value problems for ordinary differential equations.

MAE 4813. Number Systems (4). Principles and operations related to finite and infinite subsets of the real numbers are investigated, compared, and contrasted with an emphasis on understanding. Not open to students majoring in mathematics.

MAE 4815. Elements of Algebra (3). The algebra of sets and the algebra of real numbers are studied. Concepts rather than rote manipulations are emphasized. Not open to students majoring in mathematics.

MAE 4816. Elements of Geometry (3). A variety of traditional and innovative geometric topics are explored via a hands on approach. Topics include congruence, similarity, Pythagorean triples, and areas of curvilinear figures. Not open to students majoring in mathematics.

MAE 4874. Fundamental Principles of Algebra (2). Prerequisite: A 2000 level course in mathematics or two years experience in teaching secondary school mathematics. Not open to students majoring in mathematics.

MAE 4878. Introduction to Applications of Mathematics for Teachers (2). Prerequisite: A 2000 level course in mathematics or two years experience in teaching high school mathematics. Not open to students majoring in mathematics.

MAP 4103. Mathematical Modeling (3). (S/U grade only.) Prerequisites: MAP 2302; MAS 3105;PHY 2048C. 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. 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; applications.

MAP 4170. Introduction to Actuarial Mathematics (4). Corequisites: MAC 2313; STA 4442. Amount function, dollar-weighted and time-weighted rates, force of interest; special annuity types, bonds, capitalization and applications. Survival theory: force of mortality and death curve, analytical functions of mortality, contingent payments; continuous and discrete single premium models.

MAP 4175. Actuarial Models (4). Prerequisites: MAP 4170; STA 4442. Survival probabilities; mortality laws, table construction, and contingent payments and annuities; premium principles and reserves for continuous, discrete and semi-continuous insurance products; multiple decrement theory (competing risks) and application to pension plans; pricing and non-forfeiture models.

MAP 4180. Game Theory and Applications (3). Prerequisites: MAC 2313; MAS 3105; MAP 2302; STA 4442. 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; MAS 3105. Linear programming, unconstrained optimization, searching strategies, equality and inequality constrained problems.

MAP 4216. Calculus of Variations (3). Prerequisites: MAP 2302; MAA 4226. Fundamental problems, weak and strong extrema, necessary and sufficient conditions, Hamilton-Jacobi theory, dynamic programming, control theory and Pontryagin's maximum principle.

MAP 4341. Elementary Partial Differential Equations I (3). Prerequisites: MAC 2313; MAP 2302 or 3305. 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. Solution of first-order quasi-linear partial differential equations, classification and reduc-

tion to normal form of linear second-order equations, Green's function, infinite domain problems, the wave equation, radiation condition, spherical harmonics.

MAS 4106. Applied Linear Algebra II (3). Prerequisites: MAC 2313; MAS 3105. Positive definite matrices, matrix computation, linear programming and game theory. Applications.

MAS 4203. Theory of Numbers (3). Prerequisite: MAS 3301 or 4302; or consent of the instructor. The Euclidean algorithm; congruencies, quadratic residues, the law of quadratic reciprocity, and an elementary discussion of arithmetic functions and distribution of primes.

MAS 4302, 4303. Introduction to Abstract Algebra I, II (3, 3). Prerequisite: MAS 3105 (Recommended: MGF 3301.) Groups, permutation groups, subgroups, group homomorphisms, structure of groups, rings, ideals, ring homomorphisms, rings of quotients, polynomials, factorization, fields, field extensions.

MAT 4906r. Directed Individual Study (1-4). May be repeated to a maximum of twelve (12) semester hours.

MAT 4930r. Special Topics in Mathematics (1-3). (S/U grade only.) May be repeated to a maximum of twelve (12) semester hours.

MAT 4931r. Special Topics in Mathematics (1-3). May be repeated to a maximum of six (6) semester hours when subject matter changes.

MAT 4934r. Honors Work (3). May be repeated to a maximum of nine (9) semester hours.

MAT 4945r. Undergraduate Professional Internship (1-3). (S/U grade only.) Prerequisite: Permission of instructor. Supervised internships 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 (3) semester hours.

MHF 4302. Mathematical Logic I (3). Prerequisite: MAS 3301 or consent of instructor. Propositional and predicate logic, models. Godel's completeness theorem and related theorems.

MTG 4212. College Geometry (3). Prerequisites: MAC 2312; MAS 3105. 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 (Recommended: MGF 3301.) Topological spaces, metric spaces, connectedness, compactness, separation properties, topology of the plane, product spaces.

MTG 4303. Elementary Topology II (3). Prerequisite: MTG 4302. Function spaces, Hilbert space, quotient spaces, continua, paracompactness and metrizable, nets and filters, the fundamental group.

Graduate Courses

- MAA 5306, 5307. Advanced Calculus I, II (3, 3).
- MAA 5406, 5407. Theory of Functions of a Complex Variable I, II (3, 3).
- MAA 5616, 5617. Measure an integration I, II (3, 3).
- MAA 5721. Computer Analysis (3).
- MAD 5305. Graph Theory (3).
- MAD 5420. Numerical Optimization (3).
- MAD 5708. Numerical Analysis II (3).
- MAD 5738, 5739. Numerical Solution of Partial Differential Equations I, II (3, 3).
- MAD 5745. Spectral Methods for Partial Differential Equations (3).
- MAD 5757. High Order Finite Difference Methods for Computational Acoustics and Fluid Dynamics (3).
- MAP 5107. Mathematical Modeling (3).

- MAP 5177. Actuarial Models (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 5482. Mathematical Bioeconomics (3).
- MAP 5485. Introduction to Mathematical Biophysics (3).
- MAP 5512. Hydrodynamic Stability (3).
- MAP 5513. Wave Propagation Theory (3).
- MAP 5601. Introduction to Financial Mathematics (3).
- MAP 5611. Introduction to Computational Finance (3).
- MAS 5307, 5308. Groups, Rings, and Vector Spaces I, II (3, 3).
- MAS 5311, 5312. Abstract Algebra I, II (3, 3).
- MAS 5331r, 5332r. Algebraic Structures I, II (3, 3).
- MAS 5731. Computer Algebra (3).
- MAT 5907r. Directed Individual Study (1-4). (S/U grade only.)
- MAT 5911r. Supervised Research (1-5). (S/U grade only.)
- MAT 5920r. Colloquium (0). (S/U grade only.)
- MAT 5921r. Graduate Mathematics Colloquium (1). (S/U grade only.)
- MAT 5932r. Selected Topics in Mathematics (1-3).
- MAT 5933r. Special Topics in Mathematics (1-3). (S/U grade only.)
- 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.)
- MAT 5971. Thesis (3-6). (S/U grade only.)
- MHF 5206. Foundations of Mathematics (3).
- MHF 5306. Mathematical Logic I (3).
- MHF 5307. Mathematical Logic II (3).
- MTG 5326, 5327. Topology I, II (3, 3).
- MTG 5346, 5347. Algebraic Topology I, II (3, 3).
- MTG 5376r. Topological Structures I (3).
- OCF 5253. 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 6434r.	Advanced Topics in Hydrodynamics (3).
MAP 6437r.	Advanced Topics in Applied Mathematics (3).
MAP 6939r.	Advanced Seminar in Applied Mathematics (1). (S/U grade only.)
MAS 6396r. 6397r.	Advanced Topics in Algebra I, II (3, 3).
MAS 6939r.	Advanced Seminar in Algebra (1). (S/U grade only.)

MAT 6908r.	Directed Individual Study (1–4). (S/U grade only.)
MAT 6939r.	Advanced Graduate Seminar (1). (S/U grade only.)
MAT 6980r.	Dissertation (1–12). (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 course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MATHEMATICS EDUCATION: see Middle and Secondary Education

Department of MECHANICAL ENGINEERING

FAMU—FSU COLLEGE OF ENGINEERING

Chair: Chiang Shih; *Associate Chairs:* Buzyna, Collins, Hruda; *Professors:* Buzyna, Chandra, Chen, Collins, Garmestani, Gielisse, Krothapalli, Lourenco, Schwartz, Shih, Van Dommelen, Van Sciver; *Associate Professors:* Alvi, Hollis, Hruda, Kalu, Luongo; *Assistant Professors:* Cartes, Foreman; *Visiting Assistant Professor:* Moore; *Affiliated Faculty:* Haik, Han, Hussaini, Howard, Johnson, Loper, Tam

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, and design. Graduates typically enter various energy, aerospace, or product manufacturing industries, or into government laboratories.

The undergraduate program in mechanical engineering is designed to impart knowledge in basic and engineering sciences, to develop communication skills, to recognize economic principles, and to acquire a grasp of contemporary engineering practices. Beyond the basic core curriculum, the courses are grouped into four major areas: thermal and fluid sciences, mechanical system sciences, mechanics and materials, and engineering design. The courses in each of these areas emphasize a basic foundation in the engineering sciences combined with a strong design orientation and extensive laboratory experience. To experience individual creativity, a two-semester senior design project is carried out which couples theory and analysis with the physical world. Special emphasis is placed on communication skills through a rigorous writing of several laboratory reports and design project presentations. Computer literacy is tested through various courses, and the students are exposed to current industrial design software.

The department maintains well-equipped teaching and research laboratories in each major area of interest. Included are fluid mechanics, heat transfer, mechanics and materials, vibrations, and robotics laboratories. The College of Engineering provides several computer labs running a va-

riety of standard design and analysis software packages, including Algor FEA modules, PTC's Pro/Engineer and Pro/Mechanica, MSC Software's Adams and Mathworks MATLAB.

Program Educational Objectives

Consistent with the missions of The 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 five program educational objectives and eleven mechanical engineering (ME) program outcomes to fulfill the undergraduate educational goals:

1. To ensure students' mastery of core curriculum in mathematics, basic sciences, engineering science, laboratory experience, and design as well as depth through a flexible choice of related technical electives;
2. To develop students' competency in engineering design early in the curriculum, with its integration throughout the curriculum, grouping together contiguous disciplinary areas to make their connectedness clear, and to provide a year-long capstone design experience focused on the product realization process with real world engineering practice issues;
3. To enable students to work individually and in teams, both in their discipline and in multidisciplinary settings, and to communicate effectively in oral, written and visual forms;
4. Through curriculum and extracurricular activities, enable students to deal with contemporary issues, and to develop a sense of professionalism, creativity, ethical behavior, and leadership, and recognize the need for and capability to engage in life-long learning; and,
5. Prepare students for work in an increasingly multicultural and diverse society by exposing them to a multicultural environment in and outside the classroom. The following are the significant constituencies of our program and provide valuable feedback for our continued improvement.

Program Outcomes

The desired outcomes are that our graduates demonstrate the following:

- a. An ability to apply knowledge of mathematics, calculus based science and engineering to mechanical engineering problems [ABET 3a, ME-1 and ME-2];
- b. An ability to design and conduct experiments, as well as to analyze and interpret data [ABET 3b];
- c. An ability to design thermal and mechanical systems, components, or processes to meet desired needs [ABET 3c, ME-4];

d. An ability to function on multi-disciplinary teams [ABET 3d];

e. An ability to identify, formulate, and solve engineering problems [ABET 3e];

f. An understanding of professional and ethical responsibility [ABET 3f];

g. An ability to communicate effectively with written, oral, and visual means [ABET 3g];

h. The broad education necessary to understand the impact of engineering solutions in a global and societal context [ABET 3h], and a knowledge of contemporary issues [ABET 3j];

i. A recognition of the need for, and an ability to engage in life-long learning [ABET 3i];

j. An ability to use modern engineering techniques, skills, and computing tools necessary for engineering practice [ABET 3k]; and,

k. Familiarity with statistics and linear algebra [ME-3]

Note: Identifiers beginning with ABET 3, such as ABET 3a above, refer to specific outcomes in Criterion 3 of the ABET Engineering Criteria 2000. They indicate the ABET outcome which the Department of Mechanical Engineering outcome addresses. Identifiers beginning with ME, such as ME-1 above, refer to specific program educational outcomes above. They indicate the program outcome which the Department of Mechanical Engineering educational outcome addresses.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

- ENC 1101;
- ENC 1102;
- MAC 2311*;
- MAC 2312*;
- MAC 2313*;
- MAP 2302;
- CHM 1045/1045L*;
- PHY 2048/2048L;
- PHY 2049/2049L;
- Six (6) semester hours in humanities;
- Six (6) semester hours in social science;
- Three (3) additional semester hours in humanities or social science.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Core Program

A candidate for the bachelor of science (BS) degree in mechanical engineering is required to successfully complete the following engineering core courses (in addition to the mechanical engineering curriculum) 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 Laboratory (1)
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)
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 ABET 2000 accreditation guidelines.

The following core courses comprise the mechanical engineering curriculum:

EML 3002C	Mechanical Engineering Tools (4)
EML 3004C	Introduction to Mechanical Engineering (4)
EML 3011C	Mechanics and Materials I (4)
EML 3012C	Mechanics and Materials II (4)
EML 3013C	Dynamic Systems I (4)
EML 3014C	Dynamic Systems II (4)
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 4304L	Experimentation in Fluid and Thermal Sciences (2)
EML 4551C	Engineering Design Systems I (4)
EML 4552C	Engineering Design Systems II (4)
MAP 3306	Engineering Math II (3)
XXX 4XXX	Technical Electives (12)
XXX XXXX	Senior Seminar (0)

Technical Electives are generally intended to develop depth in an area of interest and must form a coherent area of concentration. A minimum of three (3) technical electives (nine [9] semester hours) must be in the Department of Mechanical Engineering.

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 Program and Honor Societies” chapter of this *General Bulletin*.

Five-Year Combined BS–MS Program

The department offers a five-year combined undergraduate-graduate program leading to the bachelor of science and master of science degrees. The objective of this program 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, and defer some undergraduate courses until the fifth year when they complete the remaining graduate course work. This program also includes a summer internship in industry between the fourth and fifth years.

Admission to the dual degree program 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 Mechanics
EGN	—	General Engineering
EMA	—	Materials Engineering
EML	—	Mechanical Engineering

Undergraduate Courses

EAS 3010. Fundamentals of Flight (3). Prerequisites: PHY 2049, MAC 2313. The course objective is to provide a clear introductory understanding of the science and engineering of heavier-than-air flight vehicles. Production of lift and drag, important effects of viscosity and compressibility, airplane design characteristics, and rocket propulsion.

EAS 4101. Principles of Aerodynamics (3). Prerequisite: EML 3016C. Atmospheric flight vehicles; the reason for configuration and the nature of airflows; two-dimensional subsonic thin air; airfoils prediction of pressure, lift, and other properties of airfoils.

EAS 4202. Aerospace Structural Analysis (3). Prerequisites: EML 3012C; MAP 3306. Elements of elasticity theory, elastic and inelastic material behavior, analysis of solid and thin-walled sections, boundary value problems, application to aerospace structures.

EGM 3512. Engineering Mechanics (4). Prerequisites: MAC 2312; PHY 2048. Corequisite: MAC 2313. Topics in this course include statics and dynamics of particles and rigid bodies using vector analysis, free body diagrams, equilibrium of particles and rigid bodies, particle and general rigid body motion, work/energy, and impulse and momentum methods.

EGM 3520. Mechanics of Materials (3). Prerequisite: EGN 3311. Concept of stress and strain, Hooke's laws, torsion, bending, combined loading, Mohr's circle, deflections, design of pressure vessels, shafts, beams, columns, energy methods.

EGN 3454. Numerical Methods (3). Prerequisites: MAP 3305, CGS 3408; or their equivalents. Number representation, linear equations, interpolation, integration, ordinary differential equations, nonlinear equations, optimization, and least squares. Students solve numerical problems using library subroutines, of which a brief analysis is presented.

EMA 4225. Mechanical Metallurgy (3). Prerequisite: EML 3012C. Tensile instability, crystallography, theory of dislocations, plasticity, hardening mechanisms, creep and fracture, electron microscopy, composite materials.

EMA 4501. Optical and Electron Microscopy (3). Prerequisite: EML 3012C or permission of instructor. Fundamentals and techniques of optical and electron microscopy as applied to the determination of physical, chemical, and structural properties of materials and materials behavior in practice.

EML 3002C. Mechanical Engineering Tools (4). Prerequisites: MAC 2311; PHY 2048C. Course covers communication and data handling, computer aided design, object oriented programming, machine shop practice.

EML 3004C. Introduction to Mechanical Engineering (4). Prerequisites: MAC 2312; PHY 2048C. Course covers the engineering profession, drafting, measurements, ethics, statics, the application of chemistry, calculus and physics to engineering problems, and an overview of the engineering design process.

EML 3005. Introduction to Design (3). Prerequisite: Junior standing in mechanical engineering. The design process; systems engineering in design, requirements analysis; design concepts generation, evaluation, and implementation; concurrent engineering; total quality techniques; ergonomics; materials selection in design, ethics in the engineering workplace; technical communications; design applications in individual and team projects.

EML 3011C. Mechanics and Materials I (4). Prerequisites: CHM 1045, 1045L; EML 3002C, 3004C; MAC 2313; PHY 2048C. This course is the first part of a two-part sequence integrating concepts of mechanics and principles of materials. It will provide 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 (4). Prerequisites: EML 3011C; PHY 2049C. Corequisite: EML 3234. This course is the second part of a two part sequence, integrating concepts of mechanics and principles of materials. Emphasis is on plasticity, energy methods, buckling, and materials selection and engineering, including phase equilibria, metallic materials, ceramics, polymers, and composites.

EML 3013C. Dynamic Systems I (4). Prerequisites: EML 3002C, 3004C. Corequisite: MAP 3305. 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 (4). Prerequisite: EML 3013C. Corequisite: MAP 3306. 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 3013C; MAC 2313. 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). Prerequisites: MAP 3305, EML 3015C. Corequisite: MAP 3306. Required corequisite: EML 4304L. 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, 3013C; MAP 3305. This is the first course 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). Prerequisites: EML 3012C, 3017C. This is the second course 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; PHY 2048. 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 3101. Applied Thermodynamics (3). Prerequisite: EML 3100. Availability and irreversibly, gas and gas-vapor mixtures, chemical reactions, combustion, chemical equilibrium in ideal-gas relations, thermodynamic aspects of fluid flow, gas-power and vapor power cycles, refrigeration.

EML 3140. Heat Transfer (3). Prerequisites: EML 3100, 3701; MAP 3306. Fundamentals of heat transfer by conduction, convection, and radiation. Heat exchangers and heat pipes. Free and forced convection.

EML 3220. Introduction to Mechanical Vibrations (3). Prerequisites: EML 3013C; MAP 3306; CGS 3408. Study of vibrations caused by oscillatory motions of bodies and the forces associated with them.

EML 3234. Materials Science and Engineering (3). Prerequisite: CHM 1045. Includes concepts of materials science and their relevance to engineering design. Recent advances in engineering materials science.

EML 3262C. Mechanism Design (3). Prerequisite: EML 3013C; Corequisite: EML 3005. Introduction to the fundamentals of mechanism design: design methodology; analysis of the kinematics, kinetics and statics of mechanisms, cams, and gears; and computer-aided mechanism design (including solid modeling).

EML 3302L. Experimental Methods in Solid Mechanics (2). Prerequisites: EEL 3003; EEL 3003L; EML 3011C; PHY 2049C. Required corequisite: EML 3012C. Measurement techniques in solids; performance characteristic of measuring devices; tensile, impact, torsion testing combined loading metallography; vibration analysis; and reinforcement of the concepts in material science and mechanics of materials; also provides the opportunity to write good technical reports.

EML 3701. Fluid Mechanics (3). Prerequisites: EML 3013C; MAP 3305. Application of laws of statics, buoyancy, stability, energy, and momentum to the behavior of ideal and real fluids. Flow in channels and pipes. Dimensional analysis, similitude, and scale models.

EML 3949. Cooperative Work Experience (0). (S/U grade only.)

EML 4161. Cryogenics (3). Prerequisites: EML 3012C; 3016C. 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 4304L. Experimentation in Fluid and Thermal Sciences (2). Prerequisites: EML 3015C, 3012C. Corequisite: EML 3016C. Engineering laboratory 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. 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. Design of advanced control systems (using time and frequency domains) will be emphasized. Implementation of control systems using continuous (operational amplifier) or digital (microprocessor) techniques will be addressed and practiced.

EML 4421. Fundamentals of Propulsion Systems (3). Prerequisite: EML 3016C. Analysis of the performance of propulsion systems from the thermodynamic and dynamic points of view, including rocket, ramjet, turbojet, and turbofan engines as well as piston and compound piston-turbine type engines.

EML 4450. Energy Conversion Systems (3). Prerequisite: EML 3016C. Investigation of such energy conversion systems as the internal combustion engine, compressors and turbines, gas turbines, nuclear power plants, garbage burning power plants, solar, wind, geothermal and electrical systems.

EML 4500. Design of Machine Elements (3). Prerequisites: EGN 3454; EML 3005, 3234. The analysis and design of mechanical components: gears, shafts, linkages, and other integral parts of machines. Analytical techniques and design methods.

EML 4501. Machine Design (3). Prerequisite: EML 3018C. Preparation and presentation of complete designs for various devices, machines, and engineering systems.

EML 4512. Thermal-Fluid Design (3). Prerequisite: EML 3016C. This course is intended to develop the students 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 4535C. Computer Aided Design (CAD) (3). Prerequisite: EML 3018C. Introduction to the theory and practice of computer-aided design: computer graphics, homogeneous transformations; parametric solid modeling, optimization, finite element analysis.

EML 4536. Design Using FEM (3). Prerequisite: EML 3018C. 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). Prerequisite: EML 3012C; senior standing in mechanical engineering. The application of materials predicated on material science and engineering case studies covering most engineering applications.

EML 4551. Engineering Design Systems I (4). Prerequisites: EML 3012C, 3014C, 3016C, 3018C. 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, manufacturing, testing and life cycle support of a product. Material covered includes: systems engineering for product design, concept generation, economics of product development, probabilistic considerations in design, concept selection, project planning, decision making, optimum design and tolerance design.

EML 4552. Engineering Design Systems II (4). Prerequisite: EML 4551. The second part of the engineering design systems course. The material covered is a continuation of topics in the first part and the completion of a student-designed product.

EML 4558. Senior Design Project (3). Prerequisite: Senior standing in mechanical engineering. A capstone design course, integrating the knowledge gained in undergraduate studies by completion of a team or individual design project.

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. Corequisite: EML 4535C. 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 4905r. Directed Individual Study (1-3). Prerequisites: Junior standing, a "B" average in mechanical engineering courses. May be repeated to a maximum of twelve (12) semester hours.

EML 4921. Engineering Communications (3). Prerequisite: Approval of instructor. Mechanics of effective engineering communications; composition and style of various types of written, graphical, and oral presentations of technical information; critical analysis of specifications related to the design, testing, and performance of components and systems related to engineering practice.

EML 4930r. Special Topics in Mechanical Engineering (1-4). Prerequisite: Approval of instructor. Topics in mechanical engineering with emphasis on recent developments. Content and credit will vary. Consult the instructor. May be repeated to maximum of twelve (12) semester hours.

EML 4945r. Practical Work in Mechanical Engineering (1-3). (S/U grade only.) Prerequisite: Approval of adviser. May be repeated to a maximum of three (3) semester hours.

EML 4970r. Honors Work (3). Prerequisite: Acceptance into honors program. 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 (6) required semester hours.

Graduate Courses

EGM 5351.	Introduction to Finite Methods of Analysis (3).
EGM 5444.	Advanced Dynamics (3).
EGM 5611.	Introduction to Continuum Mechanics (3).
EGM 5630.	Mechanics of Composite Materials (3).
EGM 5653.	Theory of Elasticity (3).
EGM 5671.	Theory of Plasticity and Viscoelasticity (3).
EGM 5810.	Viscous Fluid Flows (3).
EGM 6290.	Advanced Mechanical Vibrations (3).
EGM 6470.	Control Systems Design (3).
EGM 6565.	Computational Materials Science (3).
EGM 6845.	Turbulent Flows (3).
EGN 5455.	Numerical Methods in Engineering (3).
EGN 5456.	Introduction to Computational Mechanics (3).
EMA 5185.	Composite Materials and Structures (3).

EMA 5226.	Mechanical Metallurgy (3).
EMA 5514.	Optical and Electron Microscopy (3).
EML 5060.	Analysis in Mechanical Engineering (3).
EML 5072.	Applied Superconductivity (3).
EML 5104.	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 5451.	Energy Conversion Systems (3).
EML 5524.	Experimentation in Mechanical Engineering (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 5835.	Advanced Robotics and Mechatronics (3).
EML 5905r.	Directed Individual Study (1–6). (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 5971r.	Thesis (3–6). (S/U grade only.)
EML 6157.	Radiative Heat Transfer (3).
EML 6365.	Robust Control (3).
EML 6716r.	Advanced Topics in Fluid Dynamics (3–6).
EML 6726.	Advanced Computational Fluid Dynamics (3).
EML 6980r.	Dissertation (2–4). (S/U grade only.)
EML 8966r.	Master's Comprehensive Examination (0). (S/U grade only.)
EML 8968.	Preliminary Doctoral Examination (0). (S/U grade only.)
EML 8976r.	Master's Thesis Defense (0). (S/U grade only.)
EML 8985r.	Dissertation Defense (0). (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*.

MEDICINE

COLLEGE OF MEDICINE

Chair, Department of Biomedical Sciences: David Balkwill; *Chair, Department of Medical Humanities and Social Sciences:* Suzanne Johnson; *Chair, Department of Family Medicine:* TBA; *Faculty Administrator/Academic Administrator, Department of Clinical Sciences:* Edward Bradley; *Chair, Department of Geriatrics:* Kenneth Brummell-Smith; *Keel, Director, Family Medicine Curriculum:* Stine; *Professors:* Balkwill, Bland, Bradley, Brooks, Brummell-Smith, Costa, Grossman, Harris, Johnson, Keel, Klatt, Light, Littles, J. Lloyd, McLeod, McGee, Ouimet, Patrick, Payer, Rill, Shahady, Steele, Stine, Trowers, Usatine, Van Hartesveldt; *Clinical Professors:* Maitland, Pruett, Robinson, F.Walker, Wilson; *Associate Professors:* Baker, Boland, Hurt, Levitt, Tomkoviak; *Clinical Associate Professors:* Berkowitz, Cavanagh, Cross, Curci, Fleming, Forman, Kepper, Levenson, Martin, Miles, Oldham, Powell, Van Landingham, Wells; *Assistant Professors:* Altmann, Clarke, Reyes, Stefanovic, Wang; *Clinical Assistant Professors:* Abebe, Anderson, Aron, Ayala, Beeckler, Betancourt, Blackshear, Breland, Bush, Campo, Chicola, Childers, Clements, Cognetta, Crane, Cross, Currie, Dalrymple, K.Davis, Escobar, Forster, Foster, Fleming, Fuentes, Gilleon, Ginaldi, Golden, Grier, Gunter, Handler, Hempel, Hicks, Hinman, Hogan, Holmes, Hunter, J.Hurt, Jones, Kaufman, Kessler, Khodr, Knobbe, Kramer, La Rosa, Laurie, Lee, Liberti, Mabry, Madruga, Mahoney, Mauro, Mayeaux, T.McCoy, Meadows,

Meek, Meuser, Meyer, Miles, Mobley, Mueller, Newberry, Nguyen, Omotayo, Ortiz, Pappachristou, Platt, Pomm, Preston, Reese, Reisman, Ricke, Riganese, Serio, Shafer, Shearer, T.Sherraden, Simkin, Slade, Stabile, Stavros, Strong, Sumlar, Sweeney, Thornberry, Underwood, Van Vesse, Vicari, T.Walker, Wasson, Wilkens, B. Williams, G. Williams, Wilson, Winchester, N.Wright, S.Wright, Wood; *Associates in Medicine:* Clark, Clawson, Menachemi; *Assistants in Medicine:* Berne-Anderson, Hill, Livingston, A.McCoy, Randolph; *Clinical Instructors:* Goslin, D.Lloyd, Myers, S.Sherraden, Watt, R.Williams, Wolfson; *Librarians:* Dexter, Nagy; *Visiting Professors:* Gregory, Posner; *Visiting Assistant Professor:* Kabbaj

The Florida State University College of Medicine, in partnership with local communities, provides a four-year program of study leading to the medical degree (MD.) The college has received initial provisional accreditation from 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 Clerkship
BMS	—	Biomedical Science

Graduate Courses

First Year Courses

BMS 6015.	Doctoring 101 (3). (S/U grade only.)
BMS 6016.	Doctoring 102 (6). (S/U grade only.)
BMS 6017.	Doctoring 103 (6). (S/U grade only.)
BMS 6110C.	Clinical Microscopic Anatomy and Laboratory (4).
BMS 6115C.	Clinical Anatomy, Embryology and Imaging (10).
BMS 6204r.	Medical Biochemistry and Genetics (4).
BMS 6706C.	Clinical Neuroscience (7).

Second Year Courses

BMS 6301.	General Medical Microbiology and Infectious Disease (3).
BMS 6302.	Systemic Medical Microbiology and Infectious Disease (2).
BMS 6401.	General Medical Pharmacology (3).
BMS 6402.	Systemic Medical Pharmacology (3).
BMS 6511.	Organ Physiology (4).
BMS 6520.	Systemic Physiology (2).
BMS 6601.	General Pathology and Immunology (4).

BMS 6602.	Systemic Pathology and Laboratory Medicine (6).
BMS 6821.	Psychosocial Aspects of Medicine I (2).
BMS 6822.	Psychosocial Aspects of Medicine II (4).
BMS 6823.	Health Issues in Medicine (2).
BMS 6831.	Doctoring 201 (6). (S/U grade only.)
BMS 6832.	Doctoring 202 (7-9). (S/U grade only.)
BMS 6940.	Internship/Practicum/Clinical Practice (1). (S/U grade only.)

Third Year Courses

BCC 6112.	Internal Medicine (8). (S/U grade only.)
BCC 6130.	Obstetrics/Gynecology Clerkship (6). (S/U grade only.)
BCC 6141.	Pediatrics Clerkship (6). (S/U grade only.)
BCC 6150.	Psychiatry Clerkship (6). (S/U grade only.)
BCC 6160.	Surgery Clerkship (8). (S/U grade only.)
BCC 6170.	Community Medicine (3). (S/U grade only.)
BCC 6175.	Family Medicine Clerkship (6). (S/U grade only.)

BCC 6942. Doctoring 3 (6). (S/U grade only.)

Fourth Year Required Clerkships

Required Courses	Required Hours
BCC 6126 Geriatrics	4
BCC 6174 Advanced Family Practice	4
BCC 6180 Emergency Medicine	4
BCC 6190 Advanced Internal Medicine	4
Elective Clerkships (total of Twenty-four [24] weeks)	

Department of METEOROLOGY

COLLEGE OF ARTS AND SCIENCES

Chair: Robert G. Ellingson; *Professors:* *Barcilon, Ellingson, Fuelberg, T. Krishnamurti, Nicholson, +O'Brien, *Pfeffer, Ray, Zou; *Associate Professors:* Ahlquist, *Clayson, Kim, Ruscher; *Assistant Professors:* Bourassa, Liu; *Visiting Assistant Professor:* Cunningham; *Professors Emeriti:* Gleeson, LaSeur, Long, Staley, Stuart

* Also Associate, Institute of Geophysical Fluid Dynamics.

+ Joint appointment with the Department of Oceanography

Also Faculty Associate, School of Computational Science and Information Technology (CSIT)

The Department of Meteorology was founded in 1949 and throughout its history has been one of the leading meteorology programs in the country. It is the flagship meteorology department in the southeastern United States, offering degrees from the bachelor of science (BS) through the doctor of philosophy (PhD). The program at The Florida State University is considered to be one of the top five comprehensive meteorology programs in the nation.

Members of the Department of Meteorology enjoy the benefits of advanced scientific equipment and a cooperative research environment with the departments of Mathematics and Oceanography, the Geophysical Fluid Dynamics Institute (GFDI), and the School of Computational Science and Information Technology (CSIT). Scientific computations are handled on equipment ranging from PCs and Macintosh computers to networks of scientific workstations and a departmental supercomputer. A high speed network connects the department to campus and other supercomputer centers and research laboratories via a very fast campus backbone and excellent Internet connectivity to the outside world. Several of the faculty are also actively involved in National Weather Service collaboration as Fellows of the NOAA Cooperative Institute for Tropical Meteorology.

The department maintains a full suite of weather applications software (including those supported by the Unidata program,) and receives real-time National Weather Service data feeds via NOAA PORT. We also manage our own weather satellite receiving stations for instructional and research use. A public area for current weather discussions and classes includes combinations of weather maps and computer displays. Two departmental computing laboratories are well-populated with networked Sun terminals. 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, including computerized CD-ROM databases. 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 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 The Florida State University's cable Channel 4. Students often use this experience to develop internships with television stations or networks. 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 new opportunities for our students.

The EXPLORES! educational outreach program, the NOAA Cooperative Institute in Tropical Meteorology, and the Center for Ocean-Atmosphere Prediction Studies (COAPS) have all formed within the department in the 1990s. These new programs focus on faculty interactions with science teachers, operational meteorologists, and other researchers in exciting new fields of research. A new building that houses the National Weather Service in Tallahassee was completed in 2002 adjacent to the Meteorology/Mathematics building, which has further strengthened the department's ties to the weather forecast community.

National and international honors have been bestowed upon departmental faculty members. Six members of the meteorology faculty are Fellows

of the American Meteorological Society (AMS). Dr. O'Brien has received the AMS Sverdrup Gold Medal, and Dr. T. Krishnamurti has received the AMS Second Half Century Award and the Rossby Research Medal, as well as the World Meteorological Organization's IMO Prize.

For additional information, see the department's website at <http://www.met.fsu.edu>.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. MAC 2311;
2. MAC 2312;
3. PHY 2048/2048L or PHY 2048C;
4. PHY 2049/2049L or PHY 2049C.

Requirements for a Major in Meteorology

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*. A de-

tailed handout for meteorology majors entitled Undergraduate Program in Meteorology is available in the departmental office.

Meteorology is a quantitative science requiring extensive preparation in mathematics and physics. Freshmen entering the program are urged to take the College-Level Exemption Program (CLEP) or other exemption examinations in order to realize maximum flexibility.

The Department of Meteorology 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 towards students' goals.

Meteorology majors are advised 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, 2502C, 2700, 3300, 4301, 4302, 4420, 4500C, and 4501C. Those intending to seek employment as a meteorologist with the Federal Government should take MET 4400C as one of their elective courses. MET 4450 and its corequisite PHY 3101 are strongly recommended for graduate work.

Required courses in mathematics begin with MAC 2311, which may not be taken without its prerequisite courses, MAC 1114 and MAC1140 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 also must complete CHM 1045C, PHY 2048C, and PHY 2049C. Students who wish to take MET 4450 must also take PHY 3101 (a corequisite course); this provides such students with a second minor in physics. Computer science also has arranged for a special minor for meteorology majors (see department for details.)

The bachelor of arts (BA) degree may be obtained by completing the bachelor of science (BS) degree requirements plus additional courses required by the University.

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 courses. A student who has received more than five unsatisfactory grades (U, F, D-, D, D+) in courses required for a major in meteorology (chemistry, mathematics, meteorology, or physics) at the The Florida

State University or elsewhere, whether repeated or not, will not be permitted to graduate with a degree in that major.

A grade point average of at least 2.00 is required for all meteorology courses numbered 2000 or higher. No more than a total of three (3) S/U-grade only MET prefix courses may be used for the total semester hour requirement for a degree in meteorology.

Honors in the Major

The Department of Meteorology offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Meteorology

Requirements for a minor in meteorology must be discussed on an individual basis with a meteorology faculty advisor or academic coordinator. Options are available and must be matched to a student's academic background, and generally require meteorology and mathematics coursework. Additional information is available from the academic coordinator in the Department of Meteorology, 404 Love Building. In no case may more than three (3) semester hours in S/U courses apply towards a major or minor meteorology.

Class Attendance

The Department of Meteorology does not enforce the first-day attendance policy. Students missing the first day of any class will not automatically be dropped.

Definition of Prefixes

- ISC — Interdisciplinary Science
- MAP — Mathematics: Applied
- MET — Meteorology
- OCP — Oceanography: Physical
- PSC — Physical Science
- SCE — Science Education

Undergraduate Courses

- ISC 3076. Science, Technology, and Society (3).
- PSC 2800C. Earth Science for EC/EE Teachers (4).

and

- SCE 4939r. Seminar in Contemporary Science, Mathematics, and Science Education (1).

Note: for descriptions of the above courses, see interdisciplinary science courses listed in the "College of Arts and Sciences" chapter of this *General Bulletin*.

- MET 1010. Introduction to the Atmosphere (3). 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; college-level algebra. Corequisite: MET 1010. Two (2) hours per week. Data analysis, instruments, and weather system models.

- SCE 4365C. Teaching Earth and Space Science (3). This course examines the pedagogical content knowledge needed to teach earth/space science.

Introductory Courses for Majors

- MET 2101. Physical Climatology (3). Corequisite: MET 2700. Global distribution of principal climatic elements with emphasis on physical causes. Statistical analysis of distributions of climatological variables.

- MET 2502C. Weather Analysis and Forecasting (2). Corequisite: MET 2700. 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 1045C, MAC 2311. Corequisite: PHY 2048C. Atmospheric structure and composition; weather and circulation systems; physics of atmospheric processes, including thermodynamics of dry and moist air.

- MET 3300. Introduction to Atmospheric Dynamics (3). Prerequisites: MAC 2312 ("C" or better); MET 2700 ("C" or better). This course will examine a variety of topics, including equations of motion, mass conservation, thermodynamics, vorticity, and geostrophic, gradient and thermal winds.

- MET 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

Required Courses for Majors

- MET 4301. Atmospheric Dynamics I (4). Prerequisites: MET 3300 ("C" or better); MAP 2302 or 3305. Corequisite: MET 4420. 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 (3). Prerequisite: MET 4301. 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, 2049C; MET 2700 ("C" or better); MAC 2313. Classical equilibrium thermodynamics; first and second law, entropy, phase changes, potentials. Physics of moist air; physics of aerosols; condensation of water vapor on aerosols.

- MET 4500C. Synoptic Lecture-Laboratory I: Basic Analysis Techniques (3). Prerequisites: MET 2502C ("C" or better), 3300; or consent of instructor. Corequisites: MET 4301 or 5311; MET 4420; CGS 3460 or other programming language. 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 4301 or 5311; MET 4420, 4500C; STA 2122 or equivalent. Synoptic calculation and four-dimensional analysis of weather systems.

Elective Courses for Majors

- MET 3520r. Current Weather Discussion (1). (S/U grade only.) Prerequisite: MET 2700. Discussion of facsimile analysis and prediction materials. Three meetings per week. May be repeated to a maximum of four (4) semester hours.

- MET 3940r. Weathercasting (1). (S/U grade only.) Prerequisite: MET 1010 or Corequisite: MET 2700. Practice in preparing and presenting weathercasts for radio and television. May be repeated to a maximum of four (4) semester hours.

- MET 4130. Advanced Physical Climatology (2). Prerequisites: MET 2101 ("C" or better); MAC 2312. Treatment of causes of climate in terms of physical, dynamical, and geographical factors.

MET 4159r. Selected Topics in Meteorology (1–3). Prerequisite: MET 2700 (“C” or better). Corequisites: MET 2101, 3300; or consent of instructor. Selected topics in meteorology and climatology not covered in other courses. May be repeated for different material to a maximum of twelve (12) semester hours.

MET 4400C. Meteorological Instrumentation and Observations (3). Prerequisites: PHY 2048C and MET 2700, both with a grade of “C” or better. Two (2) hours lecture, three (3) hours laboratory. Theory and practice of calibration and operation of basic sensors. Measurement of temperature, heat flow, fluid flow, pressure, and moisture.

MET 4450. Atmospheric Physics II (3). Prerequisite: MET 4420; Corequisite: PHY 3101. Microphysics and dynamics of clouds; growth of ice crystals. Radiative processes in the atmosphere; radiative transfer equation, absorption by gases, Rayleigh scattering.

MET 4900r. Honors Work (1–6). May be repeated to a maximum of nine (9) semester hours.

MET 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine (9) semester hours.

MET 4945r. Meteorology Internship (1–9). (S/U grade only.) Prerequisite: Instructors approval. May be repeated to a maximum of nine (9) semester hours. Supervised internship individually assigned to accommodate students background and objectives. Credit proportional to scope and significance of work.

Graduate Courses

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 5541r. Dynamical Weather Prediction (3).

- MET 6308r. Advanced Topics in Dynamical Meteorology (3).
 OCP 5253. Fluid Dynamics: Geophysical Applications (3).

Physical Meteorology

- MET 5403C. Meteorological Instruments and Observations (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. 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 5550. Statistical Weather Prediction (3).
 MET 6561r. Advanced Topics in Synoptic Meteorology (3).

Climatology

- MET 5105. Global Climate System (3).
 MET 5135. Dynamic Climatology (3).

- MET 6155r. Advanced Topics in Climatology (1–3).

Other Courses

- MET 5090. Applied Time Series Analysis (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 5920r. Colloquium: Topics in Meteorology Research (1). (S/U grade only.)
 MET 5930. Master’s Seminar (2).
 MET 5971r. Thesis (1–6). (S/U grade only.)
 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).
 MET 6980r. Dissertation (1–12). (S/U grade only.)
 MET 8964r. Preliminary Doctoral Examination (0).
 MET 8966r. Master’s Comprehensive Examination (0).
 MET 8976r. Master’s Thesis Defense (0).
 MET 8985r. Dissertation Defense (0).
 OCP 5271. Turbulence (3).
 OCP 5551. Physics of the Air-Sea Boundary Layer (3).

For listings relating to graduate course work for thesis, dissertation, and master’s and doctoral examinations and defense, consult the *Graduate Bulletin*.

**MICROBIOLOGY:
see Biological Science**



Department of MIDDLE AND SECONDARY EDUCATION

COLLEGE OF EDUCATION

Chair: David Foulk

The Department of Middle and Secondary Education consists of six program areas: English education, health education, mathematics education, multilingual/multicultural education, science education, and social science education. Each of these program areas offers undergraduate degrees to prepare middle and high school teachers in specific disciplines. Successful completion of a degree qualifies candidates for certification to teach in high schools in Florida and for national certification. Please refer to the 'Teacher Preparation General Education Requirements' section of the "College of Education" chapter in this *General Bulletin* for additional details.

The following are offered by the Department of Middle and Secondary Education:

English education (middle and secondary English)

Health education (school health and community health)

Mathematics education (middle and secondary mathematics)

Multilingual/multicultural education (French, German, Latin, and Spanish [K-12])

Science education (biology, chemistry, earth-space science, middle grades science, and physics)

Social Science Education

Certificate in teaching English to speakers of other languages*

*graduate only

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 Preservice Teacher Preparation Programs.

State of Florida Common Course Prerequisites

The State of Florida has identified common course prerequisites for the following University degree programs. Specific prerequisites are required for admission into the upper-division programs and **must** be completed by the student at either a community college or a state university prior to being admitted to these programs. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

The following lists the common prerequisites or their substitutions necessary for admission into these upper-division degree programs:

English Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics; natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. SPC X600;
6. One three (3) semester hour literature course;
7. Three (3) semester hours of electives in English.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5-7 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Foreign Languages Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. At least twelve (12) semester hours must come from the following areas: courses in elementary and intermediate grammar, composition and advanced conversation; culture and civilization in the target language.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Health Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. **Plus** the following general program prerequisites:

a) Personal health: three (3) semester hours;

b) Three (3) semester hours of anatomy and physiology plus lab;

c) Introduction to nutrition: three (3) semester hours;

- d) Six (6) semester hours of electives in health, natural and social sciences.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in category 5 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Biology Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Eight (8) semester hours of biology with lab;
6. Eight (8) semester hours of chemistry with lab or physics with lab;
7. Six (6) semester hours of electives in science.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–7 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Chemistry Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Eight (8) semester hours of biology with lab or physics with lab;
6. Eight (8) semester hours of chemistry with lab;
7. Six (6) semester hours of electives in science.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–7 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Earth/Space Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Eight (8) semester hours of biology with lab or chemistry with lab or physics with lab;
6. Four (4) semester hours of geology with lab;
7. Three (3) semester hours of oceanography.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–7 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Physics Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Eight (8) semester hours of biology with lab or chemistry with lab;
6. Eight (8) semester hours of physics with lab;
7. Six (6) semester hours of electives in science.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–7 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Middle Grades Science Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;

4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

- a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
- b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
- c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
- d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
- e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Eight (8) semester hours of biology with lab or chemistry with lab or physics with lab;
6. Four (4) semester hours of geology with lab;
7. Three (3) semester hours of oceanography.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–7 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Secondary Mathematics Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
 - b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Four (4) semester hours of calculus and analytic geometry I;
6. Four (4) semester hours of calculus and analytic geometry II;
7. Three (3) semester hours of computer programming language (applicable to microcomputer); and,
8. Four (4) semester hours of electives in mathematics.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–8 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Junior High/Middle School Mathematics Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
 - b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.
5. Four (4) semester hours of biological science;

6. Four (4) semester hours of calculus and analytic geometry;
7. Three (3) semester hours of computer programming language (applicable to microcomputer); and,
8. Four (4) semester hours of electives in mathematics or physical science.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in categories 5–8 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Social Sciences Teacher Education

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. Three (3) semester hours of American Government;

6. One course each from **four** of the following six areas for a total of twelve (12) semester hours: anthropology, cultural geography, economics, history, psychology, and sociology.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact the department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses in categories 5–6 may be applied to the corresponding requirements in liberal arts and sciences noted above.

Programs

Students **should note** that the following courses are applicable to each of the major programs in middle and secondary education, listed below.

Definition of Prefixes

EDG — Education: General
EDM — Education: Middle School

Undergraduate Courses

EDG 2701. Teaching Diverse Populations (3). Students will 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 will participate in a field-based experience.

EDM 3001. Introduction to Middle School (3). This course is designed to give the student an introduction to the modern middle school. It will include the philosophy and practice of the ideal middle school. The development of the middle school will be studied.

ENGLISH EDUCATION

Professor: Carroll; *Assistant Professors:* Bowman, Wood; *Professor Emeritus:* Simmons

Secondary English Education Undergraduate Program

The program in English education requires course work in English, English education, teaching English as a second language, and professional education. After meeting State of Florida Common Course prerequisites, students in English education must complete a minimum of twenty-one (21) semester hours of English course work. 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.

In English education, candidates must complete LAE 3331, 3333, 4323, 4360, 4860, 4941, 4942 (student teaching) and an approved reading course. Additional English education course work

may be taken as independent study (LAE 4905r) or in special topics in teaching English (LAE 4930).

All graduates are required to be eligible for the state ESOL endorsement and will take approved coursework in teaching English as a second language.

Six (6) semester hours of upper division professional education courses are required (as explained in the College of Education section of this *General Bulletin*). Students must complete all required course work before being admitted to student teaching. Students are encouraged to student teach in the local area (Area I) or in the other areas supported by the College of Education.

In addition to meeting the College of Education criteria for admission to teacher education, students must meet the following standards in order to student teach: 1) a minimum 2.75 grade point average (GPA) in English courses; 2) a minimum 3.0 GPA in English education courses; 3) a minimum 2.75 GPA in professional education courses; 4) completion of all required English education courses with no lower than a "C"; and 5) approval by the English education faculty.

Students who fail to meet any one of these criteria will not be allowed to student teach.

Students who meet certification requirements in English may seek to obtain certification in speech. Consult the College of Communication for current speech certification requirements.

Definition of Prefixes

LAE — Language Arts and English Education
RED — Reading Education

Undergraduate Courses

LAE 3331. Teaching Literature and Drama in High Schools (3). Prerequisite: a minimum of six (6) semester hours of literature at the 2000, 3000, and/or 4000 level. 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: a minimum of six (6) semester hours in composition. Attitudes, materials, and procedures for teaching written composition, language, and grammar; planning instruction and evaluating student writing.

LAE 4310. Content Area Reading for Secondary School Teachers (3). 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.

LAE 4323. Teaching English in the Middle School (3). Prerequisite: a minimum of six (6) semester hours of literature and six (6) semester hours of composition. Review of contemporary approaches to instruction in young adult literature, language, and language development, oral and written composition, corrective and developmental reading, and study skills. All English components will be considered in the light of early adolescent learning characteristics.

LAE 4332. Applied English Linguistics for Teachers (3). A course 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 will be related to contemporary theories of learning.

LAE 4360. Classroom Management and Planning Instruction in Middle/High School English (3). Prerequisites: Two from LAE 3331, 3333, and 4323. 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. To be taken during the final semester of course work, with LAE 4941.

LAE 4860. Using Technology in Teaching Language Arts (3). Prerequisite: EME 2040 or equivalent. Survey of the uses of technology to improve the achievement of students in English at the secondary level. Course includes: video, film, video camcorders, computers, computer software evaluation, media literacy, the Internet, homepages, CD-ROM, and Hypertext.

LAE 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

LAE 4930. Special Topics in Teaching English (1-3). 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 (6) semester hours.

LAE 4941. Methods and Observation/Participation in Middle/Secondary English (2). M(S/U grade only.) Prerequisites: Two of the following—LAE 3331, 3333, 4323. A series of observation and participation activities designed to provide the English education undergraduate with prestudent teaching classroom experiences. To be taken during the final semester of course work, with LAE 4360.

LAE 4942. Student Teaching in Secondary School English (1-2). (S/U grade only.) Prerequisites: All English, LAE, and EDF requirements. Internship in secondary English.

Graduate Courses

- LAE 5064. Reader Response to Literature: Research and Practice (3).
- LAE 5637r. Problems and Trends in Secondary English Curriculum (3-6).
- LAE 5736. Written Composition in the Secondary School: Theory and Research (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 5945r. Supervised Teaching (1-4). (S/U grade only.)
- RED 5337. Supervision and Instruction in Secondary School Reading (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

HEALTH EDUCATION

Professors: Foulk, Sutherland

The health education program includes teacher certification or community health education and leads to either a bachelor of science (BS) or a master of science (MS) degree. This program is designed to prepare health educators to assist individuals in achieving an optimal level of health, to prevent disease and debilitating conditions from occurring, and to minimize the impact of such diseases and conditions upon individuals who

have been affected. With a degree in health education, an individual may choose from such practice settings as the school system, business and industry, community agencies, and governmental and tax-supported agencies, as well as the medical care systems.

Admission to the undergraduate program (both school and community health) requires a minimum composite score of 20 on the Enhanced ACT or a combined score of 960 on the SAT I, and a passing score on each section of the CLAST (exemptions not accepted). If the student desires teacher certification, additional admission requirements are explained in the "College of Education" chapter of this *General Bulletin*. For further details, see the program advisor.

Degree/Certification

The bachelor of science (BS) and master of science (MS) degrees are available. The BS degree requires sixty (60) semester hours of upper-division course work, including either student teaching or a community health field experience.

Students entering the master's degree program without an undergraduate degree in health education or some area of allied health may be required to take additional courses. Master's degree candidates desiring teacher certification as an area of specialization must meet additional requirements. For further details, refer to the *Graduate Bulletin*.

Note: students are not guaranteed a student teaching experience or community health field experience in the greater Tallahassee area. See the requirements for clinical education placements described in the "College of Education" chapter of this *General Bulletin*.

Definition of Prefix

HSC — Health Education and Safety

Undergraduate Courses

HSC 2100. Health Implications of our Changing Culture (3). Contemporary health problems arising from changing living patterns, morals, values, and environment.

HSC 3002. Introduction to Health Promotion (3). A survey course of the theory and practice of health education. At the completion of this course students will be able to apply one of a number of health education theories to a community or school setting and outline the steps needed to develop, implement, and evaluate a program specific to those identified needs. Types of theories include underlying theories of health education, theories of individual behavior, and theories of integrative models of behavior change. Finally students will be able to discuss the relationship between historical foundations in health education and the evolving health reform in our nation.

HSC 3120. Consumer Health (3). Demonstrate appropriate decision-making skills and other life skills as applied to the purchasing of health goods and services.

HSC 3312. Problems in Health Education (3). Prerequisite: HSC 4200. Analyzes and applies the appropriate individual and group health educators/health promotion teaching/learning interventions.

HSC 3313. Strategies for Effective Health Education Program Development (3). Prerequisite: HSC 4200; Corequisite: HSC 3312. Participate in a variety of techniques useful in educational settings; to analyze, plan, implement, and evaluate health education methodologies and strategies for a school setting.

HSC 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

HSC 4143. Preventive Approaches and Strategies in Drug Education for the Educator (3). A review of preventive strategies related to drug usage. Stressed are physiological, psychological, and sociological aspects of drug use and drug abuse.

HSC 4200. Introduction to Community Health (3). Philosophy and practice of public and community health including economic, sociologic, and legal justifications.

HSC 4300. School Health Methods/Strategies (4). Prerequisites: HSC 3312, 3313. Health instruction, services, and environment are presented and problems/issues of practicing health educators, K-12, are discussed.

HSC 4814r. Community Health Education Field Experience (5-15). (S/U grade only.) Application of theoretical knowledge and strategies to the development of health education skills in a community health setting. May be repeated to a maximum of fifteen (15) semester hours.

HSC 4870r. Student Teaching in Health Education (1-15). (S/U grade only.) Prerequisite: HSC 4300. Application of school health education theory to the practice under the direct supervision of a school health educator. May be repeated to a maximum of fifteen (15) semester hours.

HSC 4906r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

HSC 4935r. Selected Special Topics in Health Education (3). An analysis of selected topics related to health education. May be repeated to a maximum of six (6) semester hours when topics vary in content and area.

Graduate Courses

- HSC 5006. Foundations of Health Promotions (3).
- HSC 5142. Health/Drug Education/Promotion Strategies in Schools (3).
- HSC 5247. Seminar in Community Health Education Program Planning and Evaluation (3).
- HSC 5506. Epidemiological Practices for Health Educators (3).
- HSC 5817r. Supervised Community Health Education Field Experience (1-12). (S/U grade only.)
- HSC 5875r. Supervised Teaching (1-4). (S/U grade only.)
- HSC 5908r. Directed Individual Study (1-3).
- HSC 5915r. Supervised Research (1-4). (S/U grade only.)
- HSC 5935r. Selected Special Topics in Health Education (3).

MATHEMATICS EDUCATION

Associate Professors: Aspinwall, Jakubowski, Presmeg, Shaw; *Assistant Professor:* Fernandez; *Professors Emeriti:* Denmark, Kalin, Nichols, Wheatley; *Distinguished Professor Emeritus:* Nichols

The secondary mathematics and middle grades mathematics teacher certification programs are fully approved by the Florida Department of Education and are accredited by the National Council for Accreditation of Teacher Education. All students are advised to see a program faculty member each semester as requirements are subject to revision based on changes in State Board of Education rules.

Curriculum for Teachers of Secondary School Mathematics Leading to a Baccalaureate Degree and Florida Teacher Certification

A student preparing to teach secondary school mathematics must take at least twenty-one (21) semester hours of mathematics, statistics, and/or computers beyond the common degree prerequisites. Specific course requirements are provided by the department.

Each student preparing to teach secondary school mathematics must take MAE 4320, 4330, 4335, 4657, 4862, 4940, 4945; and TSL 4324 or an approved substitute. **A student must earn at least a "C" in the required courses.**

Curriculum for Teachers of Middle Grades Mathematics Leading to a Baccalaureate Degree and Florida Teacher Certification

A student preparing to teach middle grades mathematics must take at least sixteen (16) semester hours of mathematics, statistics, and/or computers beyond the common degree prerequisites. Specific course requirements are provided by the department.

Each student preparing to teach middle grades mathematics must take EDM 3001; CHD 3240 or DEP 3305; MAE 4320, 4335, 4657, 4862, 4940; and TSL 4324. **A student must earn at least a "C" in the required courses.**

In order to satisfy state requirements in both programs, students take courses in assessment, reading in the content area, and human development and learning. Specific courses meeting these requirements are provided by the department.

In either program a student may not earn more than one "D" in a mathematics or statistics course. Should that occur, the student may retake the course. For details, refer to the forgiveness policy in the "Academic Regulations and Procedures" chapter of this *General Bulletin*. Some departments have specific policies with respect to grades. Please refer to these sections in this *General Bulletin*.

In addition to the College of Education criteria for admission to teacher education, the following criteria must be met: 1) pass all parts of the CLAST (exceptions to the University policy are not acceptable); 2) complete Calculus with Analytic Geometry I with a "C-" or better; 3) an overall 2.5 GPA; and 4) approval by the department. Admission to one of the programs is required prior to taking courses in the major.

Students must meet the following requirements in order to graduate from either program: 1) pass all parts of the FTCE; 2) an overall 2.5 GPA; and 3) demonstrate at a satisfactory level all of the Florida Educator Accomplished Practices at the preprofessional level during student teaching (MAE 4945.)

Definition of Prefix

MAE — Mathematics Education

Undergraduate Courses

MAE 4320. Teaching Mathematics in the Middle School (3). Prerequisites: MAC 2311, MAE 4816 or permission of instructor. Introduces students to the nature of the student learning and mathematics curricula in grades five through nine (5–9). Appropriate pedagogical strategies for the mathematical content of the middle grades are considered.

MAE 4330. How Adolescents Learn Mathematics (3). Prerequisite: MAC 2311. This course examines the following topics: foundation in adolescents' learning of mathematics; theories of learning in mathematics; the nature of mathematics; and learners' mathematical processes (problem solving, reasoning, representation, communication and connections.) It also analyzes middle and high school mathematics curricula from the perspective of adolescent learning.

MAE 4335. Teaching High School Mathematics (3). Prerequisites: MAC 2311, 2312. This course provides a foundation in the pedagogy of mathematics, focusing on the use of problem solving, cooperative learning, and appropriate tools for teaching algebra, geometry, trigonometry, calculus, statistics and probability, measurement, and number concepts and operations.

MAE 4540. Techniques and Strategies Utilized in Teaching Low Achievers (2). Corequisite: MAE 4942r (minimum of one [1] credit hour.)

MAE 4551. Helping Students Read Mathematics (2). This course satisfies the state certification requirement for reading in the content area for mathematics education majors. It addresses the teaching of reading in the content of arithmetic, algebra, and geometry.

MAE 4657. Using Technology in the Teaching of Mathematics (3). Prerequisite: EME 2040. This course explores the uses of various technologies in mathematics classes, demonstrated through hands-on activities and experiences.

MAE 4862. Using History in the Teaching of Mathematics (3). The course examines the historical origins and evolution of key mathematics concepts. Selected topics are chosen from number systems, numeration, computation, number theory, algebra, geometry, analytic geometry, and calculus.

MAE 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

MAE 4940. Classroom Management and Planning Instruction in Middle/High School Mathematics (4). Prerequisites: EDF 4430; MAC 2311; MAE 4330, 4816; or permission of instructor. This course provides for a focused examination of instructional strategies, planning, evaluation, classroom management, school laws, professional ethics, and school safety in the middle and high school mathematics classroom. Prospective teachers are expected to demonstrate an ability to impact student learning in grades 5–12. This course is to be taken during the semester prior to MAE 4945.

MAE 4941r. Field Experiences in Teaching Mathematics (1-3). (S/U grade only.) May be repeated to a maximum of six (6) semester hours.

MAE 4942r. Field Experiences in Teaching Mathematics (1-3). (S/U grade only.) May be repeated to a maximum of six (6) semester hours.

MAE 4945. Student Teaching in Mathematics (12). (S/U grade only.) Prerequisite: MAE 4940. Supervised semester-long classroom teaching experience in a Florida public school.

Graduate Courses

MAE 5146. School Mathematics Curriculum (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 course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

MULTILINGUAL/ MULTICULTURAL EDUCATION

Professor: Jenks; *Associate Professors:* Brooks, Platt; *Assistant Professors:* Hasson, Pappamihel; *Professor Emeritus:* Leamon

Multilingual/multicultural education provides instruction to individuals who are seeking teacher certification in foreign languages (undergraduate) and/or teaching English as a second language (graduate) and who are pursuing graduate degrees specializing in foreign language education, teaching English as a second language, or multicultural education. Students entering the multilingual/multicultural teacher education program are required to have a 2.5 GPA on a 4.0 scale and have a passing score on each section of the CLAST.

Curriculum for Teachers of Foreign Language Leading to a Baccalaureate Degree and Florida Teacher Certification

The bachelor of arts (BA) or bachelor of science (BS) degrees may be earned, including certification (National Council for Accreditation of Teacher Education [NCATE] approved with reciprocal agreements in more than 40 states). Course work leading to the teaching certificate requires a minimum of thirty (30) upper division semester hours in each certified language and may involve more course work than minimum degree requirements. A study abroad experience is strongly encouraged. Professional requirements include FLE 3033 (offered in fall semester) and FLE 4941 and 4945 (student teaching, offered in

spring semester). Prior to student teaching, students must take and pass: 1) the ACTFL Oral Proficiency Interview in their major foreign language with a rating in the “**advanced range**”; and 2) the Florida Teacher Certification Exam (FTCE). Students must take TSL 4324, ESOL Instruction in Content Areas, as well as complete requirements for assessment, human development and learning, and reading. Moreover, students must demonstrate at a satisfactory level all of the Florida Education Accomplished Practices at the preprofessional level during student teaching (FLE 4945).

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

FLE 3033. Introduction to Teaching Foreign Language (4). Historical development, sequence, and objectives of foreign language study; the nature of language and teaching for communication.

FLE 4591. Second Language Testing and Evaluation (3). Prerequisites: EDF 1005; EDG 2701; EME 2040; admission into teacher 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.

FLE 4794. Applied Linguistics for Second Language Learning (3). Course is designed for preservice teachers in the elementary, early childhood, and English education programs who will teach limited English proficient and other linguistic minority students pre-K-12.

FLE 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

FLE 4937r. Honors Work (3). Prerequisite: FLE 4941. May be repeated to a maximum of six (6) semester hours.

FLE 4941. Practicum in Multilingual/Multicultural Education (4). Prerequisites: FLE 3033; acceptable oral proficiency interview score. 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.

FLE 4945. Associate Teaching in a Foreign Language (10). (S/U grade only.) Prerequisites: FLE 3033, 4941, passing on FTCE.

TSL 3130. Teaching Students with Limited English Proficiency (6-12) (3). Prerequisites: Admittance into College of Education; admittance into Secondary English Education program. This course is designed to provide an introduction to the teaching of limited English proficient students. It is the first course in a pair of ESOL courses to be taken by all English education majors and, along with the infused program of study, satisfies the requirements for ESOL endorsement in the State of Florida.

TSL 4240. Language Principles and Acquisition (4). Prerequisites: TSL 3130; admittance into College of Education; admittance into Secondary English Education program. This course is designed to synthesize and reinforce concepts and theories related to the teaching of limited English proficient students. It is the second course in a pair of ESOL courses that are taken by all English education majors and satisfies the requirements for ESOL endorsement in the State of Florida.

TSL 4324. ESOL Instruction in the Content Area (3). Prerequisite: Senior standing. Theory and application of second-language learning and teaching strategies for limited English-proficient students in subject matter classes. Satisfies META requirements for all teachers of LEP students except primary language arts instructors. Appropriate for renewal of all certification coverage.

TSL 4945r. Associate Teaching in English as a Second Language (2-10). (S/U grade only.) May be repeated to a maximum of ten (10) semester hours.

Graduate Courses

EAP	5860.	Advanced English Practice for International Educators (3). (S/U grade only.)
FLE	5195.	Development of Curriculum and Materials in Foreign Languages (3).
FLE	5295.	Reading in Foreign Language Instruction (3).
FLE	5365.	Teaching of Culture: Multicultural/Multilingual Perspectives (3).
FLE	5595.	Testing and Evaluation in Foreign Languages (3).
FLE	5775.	Seminar: Research in Second Language Learning and Teaching (3).
FLE	5795.	Applied Linguistics in Foreign Language Teaching (3).
FLE	5796r.	Seminar: Special Topics in Applied Linguistics (2-3).
FLE	5908r.	Directed Individual Study (1-3). (S/U grade only.)
FLE	5915r.	Supervised Research (1-4). (S/U grade only.)
FLE	5940r.	Field Laboratory Internship (1-8). (S/U grade only.)
FLE	5945r.	Supervised Teaching (1-4). (S/U grade only.)
FLE	6776.	Research Issues and Designs in Second Language Education (3).
LIN	5706.	Psycholinguistic Perspectives on Language Acquisition and Development (3).
TSL	5005.	Teaching of English as a Second/Foreign Language (4).
TSL	5325.	ESOL (English to Speakers of Other Languages) Instruction in the Content Areas (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 (1-3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*

SCIENCE EDUCATION

Associate Professors: Davis, Gallard; *Professor Emeritus:* Dawson

Curriculum for Teachers of Science Leading to a Baccalaureate Degree and Florida Teacher Certification

The program in science education requires course work in the sciences, science education, and professional education. Forty-nine to fifty-three (49–53) semester hours in science course work approved by the science education faculty must be taken by all students seeking the baccalaureate degree and teaching certification.

All students seeking certification must be admitted to teacher education and meet all of the requirements for pursuing a state-approved program as explained in the “College of Education” chapter of this *General Bulletin*. All students must complete requirements for admission to the upper division major in one of the areas of specialization. Areas of specialization are biology, chemistry, earth/space science, middle school science, and physics. In addition to the College of Education criteria for admission to teacher education, the following criteria must be met: 1) 2.5 GPA for science and mathematics courses; 2) 2.5 GPA overall; and 3) approval by the department and program.

Required Core Courses

Professional Education Core

EDF	1005	Introduction to Education (3)
EDF	4214	Classroom Applications of Educational Psychology (3)
EDF	4430	Classroom Assessment (3)
EDG	2701	Teaching Diverse Populations (3)
EME	2040	Introduction to Educational Technology (3)
LAE	4930	Special Topics in Teaching English (3)
SCE	4361	Introduction to Middle School Science Teaching (3)
SCE	4362	Teaching and Learning Science (3)
SCE	4363	Advanced Topics in High School Science Teaching and Learning (3)
SCE	4944	Student Teaching in Science (10)
SCE	4948	Practicum in Science Education (1–5)
TSL	4324	ESOL Instruction in the Content Areas (3)

Student teaching involves a 15-week field experience during which students teach classes in their areas of specialization. Opportunities are provided to learn about schools and the manner in which science curricula are administered within schools. The practicum is a course that is conducted in conjunction with student teaching. Students meet to discuss their school-based experiences and to integrate theory and practice.

Specialty Areas (select one)

The student will work with a faculty adviser to design a program to ensure certification and competency in one of the following areas: biological science, chemistry, physics, middle school science, and earth/space science. Students must complete forty-nine to fifty-three (49–53) semester hours of science for majors in a specialty area. Twenty-two (22) of these semester hours may be satisfied when completing prerequisite and liberal studies requirements for admission to the upper division major. The student will work with a faculty adviser to design a program to ensure certification and competency in one of the following areas: biological science, chemistry, physics, middle school science, and earth/space science.

Definition of Prefix

SCE — Science Education

Undergraduate Courses

SCE 4361. Introduction to Middle School Science Teaching (3). The focus of this course is on the roles and responsibilities of science teachers. There is a field component to this course.

SCE 4362. Teaching and Learning Science (3). The focus of this course is planning, instruction, learning, and classroom environment. There is extensive fieldwork and students will teach either middle or high school classes.

SCE 4363. Advanced Topics in High School Science Teaching and Learning (3). Prerequisite or corequisite: SCE 4362. This course assumes previous field experiences and focuses on issues in curriculum, assessment, and the use of technology in science instruction.

SCE 4365C. Teaching Earth and Space Science (3). This course examines the pedagogical content knowledge needed to teach earth/space science.

SCE 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

SCE 4920r. Science Education Colloquium (0). (S/U grade only.) Colloquium provides opportunities for sharing and to learn about current science education research. May be repeated to a maximum of eight (8) times.

SCE 4939r. Seminar in Contemporary Science and Science Education (1). May be repeated to a maximum of four (4) semester hours. Two (2) hours must be taken prior to or concurrent with SCE 4330r. Required for arts and sciences majors.

SCE 4944. Student Teaching in Science (10). (S/U grade only.) Corequisite: SCE 4948r.

SCE 4948r. Classroom Management and Planning in Science Education (1). Prerequisites: EDF 1005; EDG 2701; EME 2040; SCE 4361, 4362, 4363; TSL 4324. Corequisite: SCE 4944. This course provides support and guidance to science education students participating in student teaching. The course focus is on classroom management and planning, professional ethics and school law.

Graduate Courses

SCE 5140. Curriculum in Science Education (3).

SCE 5340. Teaching and Learning Science (3).

SCE 5366C. Teaching Earth and Space Science (3).

SCE 5625. Conceptual Learning in Middle School Science (3).

SCE 5635r. Special Problems in the Teaching of Secondary School Science (1–3).

SCE 5715. Conceptual Learning in Elementary School Science (3).

SCE 5740. Research Methods in Science Education (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 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 5973r. Specialist in Education Thesis (1–6). (S/U grade only.)

SCE 6145. Curriculum Design in Science (3).

SCE 6335r. Teaching and Learning Science (3).

SCE 6395. Science Teacher Education (3).

SCE 6615. Problems in Elementary Science (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 course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

SOCIAL SCIENCE EDUCATION

Professor: Lunstrum; *Assistant Professor:* Gutierrez

Admission Requirements

Students accepted into the social science teacher education 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 course prerequisites for social sciences described earlier in this section; and 3) the requirements for admission into a teacher education program described in the "College of Education" chapter of this *General Bulletin*, which includes the following minimum standards: 2.5 GPA; passing each section of CLAST (exemptions not accepted).

Curriculum for Teachers of Middle and Secondary Social Science Leading to a Baccalaureate Degree and Florida Teacher Certification

Students preparing to teach middle and secondary school social science must complete forty-eight (48) semester hours as follows: six (6) semester hours of economics, six (6) semester hours of geography, three (3) semester hours of psy-

chology or sociology, six (6) semester hours of American government, six (6) semester hours of American history, six (6) semester hours of world history, three (3) semester hours of public speaking at the 2000-level, one three (3) semester hour 3000/4000 course (must be a non-American, non-European history or social science course), and nine (9) semester hours in a field of concentration focused on a topic/theme related to social science instruction (e.g., American culture, area studies, world affairs, ethnic studies). The forty-eight (48) semester hours may include courses in history and social science taken for liberal studies and those taken to meet the State of Florida common course prerequisites for admission to the upper division major.

Professional education requirements include SSE 4362, 4364, 4664, 4940r, 4944 and 5365r; and TSL 4324. SSE 4362, 4364, 4664, 4940r and 5365r are prerequisites for student teaching and should be taken in the fall semester preceding student teaching. Students may not use for their field of concentration any course in which they receive a grade below "C". 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 social science methods courses. **Note:** additional courses mandated by the Florida Department of Education concerning assessment and human development and learning will be required. Consult your academic advisor for details.

Students who have completed a bachelor's degree in an appropriate field may also seek certification only in conjunction with course work applied toward a graduate degree. In meeting requirements for certification, these students should enroll in graduate-level professional courses. **Note:** additional courses mandated by the Florida Department of Education concerning assessment and human development and learning will be required. Consult your academic advisor for details.

Attention is called to the following information: 1) only degree-seeking students will be admitted to the social science certification program which is an integral part of the degree requirements; 2) to complete student teaching satisfactorily, students must pass the state certification tests; and 3) in the interest of effective supervision, student teachers will, of necessity, be placed in clusters within designated school systems in Florida. There can be no assurance given that students will be placed in counties based on personal preference or convenience. A signed student teaching location preference form is required.

Definition of Prefixes

EDF — Education: Foundations
EDG — Education: General
SSE — Social Studies Education

Undergraduate Courses

SSE 4362. Fundamentals in Teaching Social Studies (3). Corequisites: SSE 4364, 4664. Rationale for social studies instruction and an examination of traditional social science instructional methods.

SSE 4364. Skill Development in Social Studies (3). Corequisites: SSE 4362, 4664. Emphasizes strategies in dealing with reading and writing problems.

SSE 4664. Inquiry in Teaching Social Studies (3). Corequisites: SSE 4362, 4364. Provides theory and practice in discovery, problem solving, and inquiry teaching of social science.

SSE 4940r. Field Study in Social Education (1–3). (S/U grade only.) A participant observation field study course in an education setting to be arranged with the instructor. Repeatable to a limit of three (3) hours credit.

SSE 4944. Student Teaching in Social Science Education (15). (S/U grade only.) Prerequisites: SSE 4362, 4364, 4664. A 15-week, off-campus student-teaching experience in Florida schools, supervised by University faculty in social science education.

Graduate Courses

- EDF 5885. Education in the Arab World (3).
EDF 5892r. The Design of National Curricula in Developing Countries (3).

- EDF 5920r. Colloquium: Bilingual/Bicultural Education (1).
EDF 5921r. Special Language and Culture Colloquium (2).
EDG 6221. Curricular Theory (3).
SSE 5144. Models of Teaching Social Studies (3).
SSE 5347r. Seminar: Contemporary Public Affairs and Trends for Teachers (3).
SSE 5365r. Problems of Teaching Social Studies in Secondary School and Junior College (1–3).
SSE 5366. Skill Development in Social Studies (3).
SSE 5367. Fundamentals in Teaching Social Studies (3).
SSE 5386. Goals and Methods for the Teaching of History (3).
SSE 5615. Problems in Teaching Elementary School Social Studies (3).

- SSE 5665. Inquiry in Teaching Social Studies (3).
SSE 5907r. Directed Individual Study (1–3). (S/U grade only.)
SSE 5915r. Supervised Research (1–4). (S/U grade only.)
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 6931. Doctoral Seminar in Social Science Education Research (3).
SSE 6933. Seminar: History of Social Studies/Social Science Education (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Interdepartmental MIDDLE EASTERN STUDIES MINOR

COLLEGE OF ARTS AND SCIENCES

Coordinating Committee: Peter Garretson (History; Committee Chair), Winnifred Adolph (Modern Languages), David Levenson (Religion), John Kelsay (Religion), Daniel Pullen (Classics)

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 (15) semester hours and must include intermediate-level competence in Hebrew (Biblical or Modern), Arabic or another Middle Eastern language approved by the committee. No more than six (6) semester hours of language courses may be counted towards the minor. No more than three (3) semester hours used to fulfill any university language requirements may be counted towards the minor. The remaining required hours must come either from the courses listed below or be approved by the coordinating committee.

Languages

- ARA 1120 Elementary Arabic I (4)
ARA 1121 Elementary Arabic II (4)
ARA 2200 Intermediate Arabic (4)

- HBR 1102 Beginning Hebrew I (4)
HBR 1103 Beginning Hebrew II (4)
HBR 1120 Elementary Modern Hebrew I (4)
HBR 1121 Elementary Modern Hebrew II (4)
HBR 2200 Intermediate Modern Hebrew (4)
HBR 2202 Intermediate Hebrew (4)
XXX XXXX Conversational Arabic (3)

Art History

- ARH 3800r Methods of Art Criticism (3) (when relevant)
ARH 4118 Archaeology of Ancient Egypt (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 4223 Modern Middle East (3)
HIS 4930r Special Topics in History (3)

Political Science

- CPO 3403 Comparative Government and Politics: The Middle East (3)
INR 4274 Studies in International Politics: The Middle East (3)

Religion

- REL 2210 Introduction to the Old Testament (3)
REL 3293r Topics in Biblical Studies (3) (when relevant)
REL 3363 The Islamic Tradition (3)
REL 3600 The Jewish Tradition (3)
REL 4203r Readings in Classical Hebrew Texts (1–3)
REL 4290r Undergraduate Biblical Studies Seminar (3) (when relevant)
REL 4323 Religions of the Ancient Near East (3)
REL 4613 Modern Judaism (3)
REL 4617 Judaism in the Graeco-Roman World (3)



Department of MILITARY SCIENCE

COLLEGE OF ARTS AND SCIENCES

Professor: Lieutenant Colonel James E. Waldo;
Assistant Professors: Brown, Clegg, Lovins,
Storey; *Instructors:* Hightower, Powell, Roper

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 32-day summer camp, normally between the junior and senior years. Nursing students attend a nursing internship at Army hospitals following the normal 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 officers in the Army are the same as those for men, excluding a few combat arms fields.

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 (75 minutes) periods and one and a half (90 minutes) hour 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

Cadets selected for admission into the advanced course qualify for a nontaxable monetary allowance of \$350–\$400 per month for up to 20 months. Cadets may also qualify for the simultaneous membership program with the United States Army Reserve or National Guard, which can provide over \$6,000 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- or three-year ROTC academic scholarships for selected students. Under the Army ROTC Scholarship Program, the students/cadets receive full tuition. Additionally, Army scholarship recipients receive a flat-rate allowance \$600 per year

for textbooks and other expenses and \$250–\$400 per month stipend for up to 10 months per year. During the 32-day advanced course summer training between the junior and senior years, Army ROTC also pays attending cadets \$22.00 per day plus room and board. There are also numerous national and organizational scholarships that students may compete for as a member of Army ROTC.

Textbooks and Uniforms

All textbooks, uniforms, and items of insignia 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 (12) 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 Pershing Rifle Society 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. Cadets may also join Scabbard and Blade, a military honors society comprising those cadets with qualifying grades that denote scholarship.

Awards and Decorations

Awards and decorations made available by national organizations, The 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 in outstanding campus and cadet corps leadership.

Prerequisite for Admission to the Professional Officer Course

1. Be at least 17 years of age at time of acceptance.
2. Be able to complete the professional officer course and graduate from The Florida State University prior to reaching the age of thirty (30) at the time of commissioning.

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 (850) 644-8806/1016 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 (90 minutes) hours 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

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 1001L. Foundations of Officership Laboratory (0).

MSL 1002. Basic Leadership (1). Corequisite: MSL 1002L. Topics presented include fundamental leadership concepts and doctrine, basic skills underlying effective problem solving, and the officer experience.

MSL 1002L. Basic Leadership Laboratory (0).

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 2101L. Individual Leadership Studies Laboratory (0).

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 2102L. Leadership and Teamwork Laboratory (0).

MSL 3201. Leadership and Problem Solving (3). Prerequisites: MSL 1001, 1002, 2101, 2102, or permission of instructor. Corequisite: MSL 3201L. This course examines skills that underlie effective problem solving. Students plan military missions and operations, and execute squad battle drills.

MSL 3201L. Leadership and Problem Solving Laboratory (0).

MSL 3202. Leadership and Ethics (3). Prerequisites: MSL 1001, 1002, 2101, 2102, or permission of instructor. Corequisite: MSL 3202L. Topics in this course include 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 3202L. Leadership and Ethics Laboratory (0).

MSL 4301. Leadership and Management (3). Prerequisite: MSL 3202 or permission of instructor. Corequisite: MSL 4301L. Students 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 4301L. Leadership and Management Laboratory (0).

MSL 4302. Officership (3). Prerequisites: MSL 3202, 4301, or permission of instructor. 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 4302L. Officer Leadership Laboratory (0).

MSL 4900r. Directed Individual Study (3). Prerequisites: permission of the professor of military science. Special supervised study/research with 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 (6) semester hours.

Preprofessional Program in MINISTERIAL STUDIES

COLLEGE OF ARTS AND SCIENCES

Advisor: John E. Kelsay, Department of Religion

The baccalaureate degree is required for admission to accredited theological schools. Students interested in a pretheological curriculum and information about theological seminaries should consult with Dr. John Kelsay at the *Department of Religion, 206 Dodd*.

Preministerial students are also advised that the King's Daughters Fund provides scholarships for students who are committed to a church-related vocation. Applications must be received by April 15th each year. Contact the Office of the Vice President for Student Affairs for details.



Department of MODERN LANGUAGES AND LINGUISTICS

COLLEGE OF ARTS AND SCIENCES

Chair: Mark F. Pietralunga; *Professors:* Carrabino, Cloonan, Darst, Fernandez, Fleming, Gerato, Launer, LeBlanc, Leparulo, Pietralunga, Ree, Ruppert, Spacagna, Stanley, Walters; *Associate Professors:* Adolph, Allaire, Cappuccio, Efimov, Galeano, Graham-Jones, Hilary, Rehder; *Assistant Professors:* Arias, Boutin, Gomariz, Lan, Leushuis, Maier-Katkin, Mitchell, Pichugin, Poey, Romanchuk, Trinch; *Assistants in Modern Languages:* Adolph, Fiori-Agoren, Stepp-Greany

The Department of Modern Languages and Linguistics provides instruction in Arabic, Chinese, Czech, French, German, Hebrew, Italian, Japanese, Korean, Portuguese, Russian and Spanish, with an emphasis on culture and literature as well as language. Several courses in linguistics are offered, in addition to courses in Chinese, French, German, Italian, and Hispanic film, and courses in French, German, Italian, Russian, and Latin American literature in English translation. The literature in translation courses count toward the literature requirement in the liberal studies humanities area and 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 The 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 and minors are offered in French, German, Italian, Slavic languages and literatures, and Spanish. All major programs will also require a minor degree. Undergraduate minors are offered in Arabic Studies, Chinese, French, German, Italian, Japanese, linguistics, Portuguese, Slavic languages and literatures, Spanish, and world literature/world film. A minor in Middle Eastern Studies is offered jointly by the Departments of Modern Languages and Linguistics, Religion, History, and Classical Languages, Literature and Civilization.

Graduate programs leading to the master of arts (MA) degree are available in French, German, Italian studies, Slavic languages and literatures (emphasis on Russian), and Spanish. Programs leading to the doctor of philosophy (PhD) degree are offered with French or Spanish as the major field of concentration. Concentrations in linguistics, comparative and world literature, Italian, Ger-

man, and Russian are available for the doctorate in humanities. For information on graduate programs, refer to the *Graduate Bulletin*.

Foreign Language Learning Center

The department's language laboratories offer state-of-the-art electronic language learning systems. Students may practice at their convenience individually (unsupervised) or with their classes under a teacher's supervision. The Foreign Language Learning Center possesses a collection of video materials, and television news from around the world can be viewed daily on the set or online. Students have access to a state-of-the-art computer lab plus an audio lab.

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 supports undergraduate and graduate courses dealing with various aspects of francophone culture, organizes lecture series by outstanding scholars from a variety of fields and hosts conferences on contemporary cultural and social issues. Through its courses, conferences and research, the institute seeks to address intellectual and social developments throughout the francophone world, whether in literature, philosophy, art, history, popular culture, history, political science, etc. To this end, the institute encourages the participation of faculty and students from a variety of academic disciplines. All courses associated with the institute can be taken for credit toward their degree by French majors, minors and graduate students. Courses with French and francophone dimensions taught by colleagues outside of the French faculty are cross-listed to provide credit either in French or in the related field.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for these degree programs:

French

1. Six to twelve (6–12) semester hours of coursework in the language.

German

1. Six to twelve (6–12) semester hours of coursework in the language.

Italian

1. Six to twelve (6–12) semester hours of coursework in the language.

Russian

1. Six to twelve (6–12) semester hours of coursework in the language.

Spanish

1. Six to twelve (6–12) semester hours of coursework in the language.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Major in a Language with Concentration in Business

A major in French, German, Italian, Russian, or Spanish with concentration in business may be selected. The program consists of twenty-one (21) semester hours in the language beyond the language requirement plus fifteen (15) semester hours of core courses and twelve (12) semester hours in a specialized track of marketing, management, or finance in the College of Business. Students should consult with their language adviser for a list of appropriate courses. No minor is required.

Co-major in Modern Languages and Linguistics

The department offers an interdepartmental program in which students may select co-majors from the following divisions: French, German, Italian, Slavic languages, and Spanish. The co-major consists of twenty-one (21) semester hours numbered above 1999 in each of two divisions selected. The student should consult with a divisional language adviser 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 (6) semester hours may overlap, that is they may be counted towards two separate majors; and 2) no minor is required.

Double Major in Modern Languages

A double major in two modern foreign languages may be approved. 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 towards any major or minor degree earned in Modern Languages and Linguistics.

French Major

Thirty (30) semester hours numbered above 2999 are required, including FRW 3100, 3101; FRE 3420, 3421, 4422, 4780; and three additional 4000-level courses (nine [9] semester hours), at least two of which (six [6] semester hours) must be in French literature. One 3000–4000 level 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. Native speak-

ers 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 about the French program, please visit the website: <http://www.fsu.edu/~modlang/french>.

German Major

Thirty (30) semester hours numbered above 2999 are required. Students must have a minimum of six (6) semester hours of skills courses (e.g. GER 3310, 3400) and six (6) semester hours of literature, film and culture classes (e.g. GEW 3370). A minimum of six (6) semester hours must be taken at the 4000-level. Students should consult with an advisor to ensure that they have met the distribution requirements.

Italian Major

Thirty (30) semester hours numbered above the language requirement are required. Students may pursue a program concentrating in either language skills or literature. The language concentration includes ITA 2240, 3420, 3421, plus seven language (ITA) courses at the 3000 and 4000 levels. The literature concentration includes ITA 2240, 3420, 3421; ITW 3100 and/or 3101; and twelve to fifteen (12–15) semester hours at the 4000 level in literature to equal twenty-seven (27) semester hours.

Slavic (Russian) Major

Thirty (30) semester hours numbered above 2999 are required, including at least twelve (12) semester hours of RUS/RUW course work at the 4000 level or above. Three (3) semester hours at the 4000 level must be in Russian literature. A maximum of six (6) semester hours from among the following course work may count toward the thirty (30) semester hour requirement: RUT 3110, 3500; LIN 3041, 4040; SLL 4500. FOL 3930r may also be counted toward the major and minor in Russian.

Spanish Major

Thirty-six (36) semester hours, distributed in the following manner, are required: eighteen (18) semester hours of 3000-level courses including SPN 3332, SPN 3333, SPW 3030, either SPN 3510 or SPN 3520, a departmental linguistics course (usually LIN 3041) and one 3000-level literature course. Required at the 4000-level are eighteen (18) semester hours in SPN or SPW courses, including at least one senior seminar, such as SPN 4540, SPN 4930 or SPW 4930.

Minor for Modern Languages Majors

At least twelve (12) semester hours in an approved departmental field are required. If a second foreign language is selected as the minor, the twelve (12) semester hours must be earned in courses numbered above 1999. A minimum grade of "C-" must be earned for all courses taken for the minor.

Requirements for a Minor in Modern Languages and Linguistics

Twelve (12) semester hours in linguistics or in any one of the following languages are required: Chinese, French, German, Italian, Japanese, Portuguese or Russian numbered above 1999. Spanish requires fifteen (15) semester hours numbered above 2999 including three (3) hours in Spanish literature. In addition, three (3) of the fifteen (15) hours of the Spanish minor must be in Spanish literature. Credit extended in meeting the foreign language requirement for graduation may not be used in satisfying the minor. A certificate is issued by the department upon successful completion of the minor requirements.

Requirements for a Minor in Arabic Studies

The minor requires ten (10) semester hours of the language above the 1999 level. Two of the courses may be selected from Arabic language classes within the Department of Modern Languages and Linguistics, and a third from a list of approved interdepartmental courses related to the Middle East or North Africa. No course taken for the minor may be used for the language requirement. At least five (5) of the ten (10) semester hours must be earned at The Florida State University.

Requirements for a Minor in Middle Eastern Studies

A minor in Middle Eastern Studies is now being offered jointly by the Departments of Modern Languages and Linguistics, Religion, History, and Classical Languages, Literature and Civilization. Fifteen (15) semester hours in approved interdepartmental fields will be required, including intermediate-level competence in Hebrew (Biblical or Modern), Arabic, or another approved Middle Eastern language. No more than eight (8) semester hours of language courses may be counted toward the minor. No more than four (4) semester hours used to fulfill any university language requirement may be counted toward the minor.

Requirements for a Minor in World Literature/World Film

The minor will consist of fifteen (15) semester hours. The student may select five courses from any of the following ten courses: CHT 3391, FRT 3140, FRT 3561, FRW 3391r, GET 3130, GEW 3391r, ITT 3430, ITW 3391r, RUW 3391r, SPT 3130, SPW 3391r. Courses taken for major credit in modern languages may not be counted toward this minor.

Definition of Prefixes

ARA	—	Arabic Language
CHI	—	Chinese Language
CHT	—	Chinese Literature in Translation
CZE	—	Czech Language
FOL	—	Foreign and Biblical Languages (i.e. Hebrew)
FOT	—	Foreign and Biblical Languages in Translation
FOW	—	Foreign Writings
FRE	—	French Language
FRT	—	French Literature in Translation
FRW	—	French Literature (Writings)
GER	—	German Language
GET	—	German Literature in Translation
GEW	—	German Literature (Writings)
HBR	—	Hebrew Language
ITA	—	Italian Language
ITT	—	Italian Literature in Translation
ITW	—	Italian Literature (Writings)
JPN	—	Japanese Language
JPT	—	Japanese Literature in Translation
KOR	—	Korean
LIN	—	Linguistics
POR	—	Portuguese Language
PRT	—	Portuguese Literature in Translation
POW	—	Portuguese Literature (Writings)
RUS	—	Russian Language
RUT	—	Russian Literature in Translation
RUW	—	Russian Literature (Writings)
SCW	—	Serbo-Croatian Literature (Writings)
SEC	—	Serbo-Croatian Language
SLL	—	Slavic Language
SPN	—	Spanish Language
SPT	—	Spanish Literature in Translation
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 these courses denoted with an asterisk (*) must obtain permission of that course's language coordinator and the associate chair in graduate studies.

Arabic

ARA 1120. Elementary Arabic I (4). 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. This course enables students to put the language they are learning to actual use. May not be taken concurrently with ARA 1121 and/or 2200 or by native speakers.

ARA 1121. Elementary Arabic II (4). Prerequisite: ARA 1120. Extended vocabulary and grammar, as well as basic conversation are emphasized. Students start conversing, reading and writing in Arabic. The skills introduced in ARA 1120 are further emphasized in this course. May not be taken concurrently with ARA 1120 and/or 2200 or by native speakers.

ARA 2200. Intermediate Arabic (4). Prerequisite: ARA 1121. The objective of this course is to solidify knowledge of basic grammar and to expand the student's vocabulary. This course emphasizes reading, writing, listening and speaking. Students in this course should take two semesters of college-

level Arabic or the equivalent prior to beginning this course. May not be taken concurrently with ARA 1120 and/or 1121 or by native speakers.

ARA 2240r. Intermediate Conversation (3-6). Prerequisite: ARA 2200 or permission of instructor. This course is designed to provide a central core around which to build a proficiency-based spoken Arabic. It provides a bridge between classical and colloquial Arabic. May be repeated with a focus on a different dialect to a maximum of six (6) semester hours. May be counted for credit toward a minor in Arabic or Middle East Studies.

Chinese

Chinese Language

CHI 1120. Elementary Chinese I (4). An emphasis is placed upon 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, 2200 and/or 2300.

CHI 1121. Elementary Chinese II (4). Prerequisite: CHI 1120 or its equivalent. The skills introduced in CHI 1120 are further emphasized in this course, including speaking, listening, and reading. May not be taken by native speakers. May not be taken concurrently with CHI 1120, 2200 and/or 2300.

CHI 2200. Intermediate Chinese (4). Prerequisite: CHI 1121 or equivalent. May not be taken by native speakers. Emphasizes reading and writing and introduces more of the essential Chinese syntax. More time will be devoted to learning Chinese characters in both recognition and production levels. May not be taken concurrently with CHI 1120, 1121 and/or 2300.

CHI 2300. Chinese Grammar and Composition (4). Prerequisite: CHI 1121 or permission of instructor. Gives students an opportunity to strengthen their knowledge of basic Chinese syntax and gain better insight into the structure of modern Chinese. Students are taught to write letters, notes, and short essays in Chinese.

CHI 3501. Readings in Chinese Short Stories and Essays (3). Prerequisite: CHI 2200 or equivalent. 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 3502. Readings in Chinese Drama (3). Prerequisite: CHI 2200 or equivalent. Introduction of selected materials in modern Chinese drama. The course objectives are to train students to be able to read some carefully chosen original works and to bring to students' awareness various cultural background for the materials selected.

CHI 4503. Readings in Chinese History (3). Prerequisite: Instructors permission. A sketch of Chinese history is introduced. Students are taught to read the text in Chinese so they will be able to expand their vocabulary to include those words necessary to understand Chinese culture and tradition.

CHI 4905r. Directed Individual Study (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 (6) semester hours.

CHI 4930. Special Topics (3). Prerequisite: Divisional permission. Allows student to study literary topics of a special kind, depending on student interest and faculty expertise.

CHI 4942r. Internship in Applied Chinese (1-6). (S/U grade only.) Prerequisite: Advanced standing in Chinese. 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) semester hours.

CHT 3391. Chinese Cinema and Culture (3). Course studies representative films from mainland China, Hong Kong, and Taiwan. Presents Chinese cinema both as a unique genre of modern arts and a powerful social and political discourse. Taught in English.

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 (6) semester hours as content changes and with permission of the instructor.

Czech

Czech Language

CZE 4905r. Directed Individual Study (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 (6) semester hours.

Film Courses

See course descriptions under individual language areas.

CHT 3391.	Chinese Cinema and Culture (3).
FRW 3391r	French Cinema (3).
GEW 3391r.	German Cinema (3).
ITW 3391r.	Italian Cinema (3).
RUW 3391r.	Russian Cinema (3).
SPW 3391r.	Hispanic Cinema (3).
PRT 3391.	Brazilian Literature and Film in Translation (3).

General Foreign Language Courses

FOL 3930r. Experiments in Modern Language (3). May be repeated to a maximum of nine (9) semester hours.

FOL 4901. Tutorial in Modern Languages, Literatures or Linguistics (1-6). (S/U grade only.) Prerequisites: Junior status or command of language; instructors permission. A maximum enrollment of five (5) students. This course allows students to pursue a topic within modern languages (linguistics, literature, culture or civilization). Number of semester hours taken depend on the content and breadth of the topic. May be repeated twice with different topics to a maximum of six (6) semester hours.

FOT 3800. Translation Practices (3). Prerequisite: Language requirement. Course provides students who have an interest in translation as a profession with sufficient information and translating skills to enable them to decide whether or not to continue to gain proficiency at the graduate level. This is not a translation course but a course about translation, although there will be translation exercises.

FOW 3240. Literature and Sexuality (3). Course focuses upon novels that explore the social and personal implications of sexual identity.

FOW 3541. Gender and Race in Literature (3). Prerequisite: One literature course. This comparative literature course explores how gender and race influence our reading, interpretation, and evaluation of European and North American literature.

FOW 4540. Franco-American Culture Wars (3). 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.

French

French Language

FRE 1120. Elementary French I (4). Oral comprehension, speaking, reading, and writing are stressed. May not be taken by native speakers. May not be taken concurrently with FRE 1121 and/or 2200.

FRE 1121. Elementary French II (4). Prerequisite: FRE 1120 or its equivalent. 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 2200.

FRE 2200. Intermediate French Readings (4). Prerequisite: FRE 1121 or equivalent. Completes University language requirement for baccalaureate degree. May not be taken by native speakers. Rapid review of basic French structures and introduction of some of the finer points of French grammar. May not be taken concurrently with FRE 1120 and/or 1121.

FRE 2220. Reading and Conversation (4). Prerequisite: FRE 2200 or equivalent. Expansion of French reading skills while introducing the student to oral expression through a discussion of the readings. May not be taken by native speakers. May not be taken concurrently with FRE 1120 and/or 1121.

FRE 3244. Intermediate French Conversation (3). Prerequisites: FRE 2220 and either 3420 or 3421. Through readings about contemporary issues facing French society—such as the evolving role of women, unemployment, immigration, economic change in the new Europe and urban renewal—this course aims at developing oral communication skills in a broad cultural context.

FRE 3420. French Grammar and Composition I (3). Prerequisite: FRE 2200 or its equivalent. An in-depth study of French grammar emphasizing some subtleties of written expression.

FRE 3421. French Grammar and Composition II (3). Prerequisite: FRE 2200 or its equivalent. Further study of the subtleties of written expression in the French language.

FRE 3440. Commercial French (3). Prerequisites: FRE 2200 and 3420. Develops language and correspondence skills appropriate to business transactions in such areas as sales, finance, transportation, management, etc.

FRE 3530. Chanson (3). Prerequisite: One semester of college French or equivalent (see instructor). Does not count toward requirement for the French major but may count toward a minor in French. A survey of the popular French song from early 20th century to modern rock. In English.

FRE 4410.* Advanced Conversation (3). Prerequisites: FRE 3244 and 3421 or equivalent. Based on contemporary materials, this course is intended to develop near-native fluency.

FRE 4422.* Advanced Grammar and Composition (3). Prerequisite: FRE 3421 or equivalent. This course, intended for students with a thorough grounding in French grammar, aims at developing writing ability through the reading of a variety of sophisticated French prose works and the composition of essays based on these model texts.

FRE 4500.* French Culture and Civilization (3). Prerequisites: FRE 3244 and 3421 or permission of divisional coordinator. This course spans the two world wars. It concentrates on the institutions of the Fifth Republic, the evolution of ideas since May 1968, the development of sciences and technology, and the artistic movements since the end of World War II. It also emphasizes the role of France in the European community.

FRE 4780.* Phonetics: Theoretical and Applied (3). Prerequisites: FRE 3244 and 3421 or equivalent. Study of the International Phonetic Alphabet and its application to French with practice in reproducing accurately French sounds and intonation patterns.

FRE 4905r. Directed Individual Study (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 (6) semester hours.

FRE 4930r.* Special Topics (3). Prerequisite: Divisional permission. 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 (9) semester hours.

FRE 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine (9) semester hours, three (3) 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.

FRE 4942r. Internship in Applied French (1–6). (S/U grade only.) Prerequisite: Advanced standing in French. 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) semester hours.

French Literature 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). 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 3561. French Women Writers (3). Prerequisite: ENC 1101, 1121, or equivalent. 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.

French Literature (Writings)

FRW 3100. Survey of French Literature: Origins Through 18th Century (3). Prerequisite: FRE 2220, FRE 3420 or 3421 is also recommended. An introduction to the study of early-modern French literature by reading and discussing works representative of the various schools and movements. (Fall semester only.)

FRW 3101. Survey of French Literature: Origins Through the 19th and 20th Centuries (3). Prerequisite: FRE 2220; FRE 3420 or 3421; FRW 3100 or permission of instructor. 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 3391r. French Cinema (3). Study of the movements and directors of French Cinema with emphasis on the postwar New Wave. May be repeated to a maximum of six (6) semester hours. Three hours may be used for minor credit with permission of the coordinator. May not be used for major credit.

FRW 4420.* Medieval and Renaissance Literature (3). Prerequisite: FRW 3100. An introduction to the fiction and prose of the early-modern period. Emphasis is on the themes of love and friendship.

FRW 4433.* 17th- and 18th-Century Literature (3). Prerequisites: FRW 3100 or 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). Prerequisites: FRW 3100 or 3101. The study of major themes and issues in 19th-century literature and culture.

FRW 4480. 20th-Century Literature (3). Prerequisites: FRW 3100 or 3101. A survey of the major works (novels, theatre, poetry) and movements of 20th-century French literature.

FRW 4740.* French Literature of Quebec (3). Prerequisites: FRW 3100 or 3101. A survey of the major works (novels, theatre, poetry) of the literature of 20th-century Quebec.

FRW 4770.* Black Literature of French Expression (3). Prerequisites: FRW 3100 or 3101. An examination of the literature of Africa and the Caribbean written in French with an emphasis on Negritude, réalisme merveilleux and other literary movements.

German

German Language

GER 1120. Elementary German I (4). 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 1121, 1130, 1131, or 2230.

GER 1121. Elementary German II (4). Prerequisites: GER 1120, 1130, or the equivalent. 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 1120, 1130, 1131 and/or 2230.

GER 1130. Elementary Conversational German (4). (Conversational method.) 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 1120, 1121, 1131 and/or 2230.

GER 1131. Elementary Conversational German (4). Prerequisites: GER 1120, 1130, or equivalent. (Conversational method.) Students with three or four years of high school German or the equivalent should consult the department for placement. Introduction to German with emphasis on speaking. Additional hours arranged for conversational practice. May not be taken by native speakers. May not be taken concurrently with GER 1120, 1121, 1130, and/or 2230.

GER 2230. Reading and Conversation (4). Prerequisites: GER 1121, 1131, or equivalent. Serves as final semester of the language requirement and as the transition to upper-level study. Contemporary reading matter, including films, slides, and recordings, serves as the basis for discussion. May not be taken by native speakers. May not be taken concurrently with GER 1120, 1121, 1130 and/or 1131

GER 3310. Intermediate German Grammar (3). Prerequisite: GER 2230 or equivalent, or permission of instructor. Not open to native speakers. 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 2230 or consent of the instructor. The objective is the ability to write and converse on general cultural topics at a level which 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 2230 or permission of instructor. An introduction to business languages and practices in German-speaking countries.

GER 3500. German Studies (3). Prerequisite: GER 2230 or permission of instructor. 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 in the twentieth century; the emphasis is placed on Germany in the second half of the twentieth century.

GER 3502r. Topics in German Studies (3–6). Prerequisite: GER 2230 or permission of instructor. 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 will change frequently. May be repeated to a maximum of six (6) semester hours with permission of instructor.

GER 3780. Phonetics (3). Prerequisite: GER 2230. The objectives are the acquisition of correct German sound formation by comparison with English phonetics and the improvement of the students conversational German through pronunciation exercises. The course is conducted in German.

GER 3930r. Special Topics (3). Prerequisite: GER 2230 or equivalent. 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 (9) semester hours when content changes.

GER 3941r. Directed Individual Tutorial Practice (3). Prerequisite: Consent of instructor. Students review grammar and improve their speaking skills by leading groups of students in the GER 1130/1131 classes. May be repeated to a maximum of nine (9) semester hours.

GER 4420.* Advanced Composition (3). Prerequisite: GER 3400 or equivalent. Course objective: ability to write with a developed personal style in German on intellectually demanding topics, including commentary on literature. Near mastery of German grammar is a prerequisite. The course is conducted in German.

GER 4480.* Modern German of the News Media (3). Prerequisite: GER 3400 or consent of instructor. An advanced-level skills course. Discussion of current events and mass media in German-speaking countries and work with authentic texts (newspapers and audio- and videotapes).

GER 4905r. Directed Individual Study (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 (6) semester hours.

GER 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine (9) semester hours, three (3) 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. 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) semester hours.

German Literature in Translation

GET 3130. Masterpieces of German Literature in Translation: 19th and 20th Centuries (3). This course provides students the opportunity to read German literary works in English translation. The focus is on major literary texts and movements of the 19th and 20th centuries. May be counted for major or minor credit. Taught in English.

GET 4800.* Translation German-English/English-German (3). Prerequisite: GER 3400 or consent of instructor. An advanced-level skills course. Translating a variety of texts that illustrate important distinctions between German and English grammar, syntax, vocabulary, etc.

German Literature (Writings)

GEW 3320. Drama (3). Focuses on contemporary German drama in a sociohistorical 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 2230 or equivalent. Through reading and discussion of short pieces of fiction, primarily from the twentieth century, students are introduced to the principles of literary study.

GEW 3391r. German Cinema (3). Study of the contextual and stylistic features of German cinema from its classical period in the 1920s to the New German Cinema of the 1970s and 1980s. Focus is on methods of film analysis and on film criticism. May be repeated to a maximum of six (6) semester hours.

GEW 4591r.* Studies in an Author or Theme (3). Offers the opportunity to study either a single author in-depth or to follow a specific theme which may extend over a brief period or over centuries. Course material is often supplemented by recordings and cinematic representations. May be repeated to a maximum of nine (9) semester hours.

GEW 4592r.* Studies in a Period or Movement (3). 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 (9) semester hours.

GEW 4900r. Directed Individual Readings in Literature (3). May be repeated to a maximum of nine (9) semester hours. Students arrange with individual faculty members to study literature outside the regular curriculum.

GEW 4930r. Special Topics (3). May be repeated to a maximum of nine (9) semester hours. Students arrange with individual faculty members to undertake study in areas outside the regular curriculum.

Hebrew

Hebrew Language

HBR 1120. Elementary Modern Hebrew I (4). No previous knowledge required. May not be taken by native speakers. 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. May not be taken concurrently with HBR 1121 and/or 2200.

HBR 1121. Elementary Modern Hebrew II (4). Prerequisite: HBR 1120 or equivalent. May not be taken by native speakers. 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 concurrently with HBR 1120 and/or 2200.

HBR 2200. Intermediate Modern Hebrew (4). Prerequisites: HBR 1120, 1121, or equivalent. May not be taken by native speakers. Completion of this course will fulfill the foreign language requirement for the College of Arts and Sciences. In a proficiency-oriented classroom, students continue their study of Hebrew. 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 concurrently with HBR 1120 and/or 1121.

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 1121, 1131, 2230 and/or 2300.

ITA 1121. Elementary Italian II (4). Prerequisite: ITA 1120 or its equivalent. This course builds upon the students 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 1120, 1131, 2230 and/or 2300.

ITA 1130. Elementary Conversational Italian I (4). (Dartmouth method) An introductory course emphasizing learning Italian through speaking and understanding skills at the elementary level. May not be taken by native speakers. May not be taken concurrently with ITA 1120, 1121, 1131 and/or 2300.

ITA 1131. Elementary Conversational Italian II (4). Prerequisite: ITA 1130 or its equivalent. (Dartmouth method) This course builds upon the speaking and reading skills learned at the 1130 level. May not be taken by native speakers. May not be taken concurrently with ITA 1120, 1121, 1130 and/or 2300.

ITA 2230. Reading and Conversation (4). Prerequisite: ITA 1121 or 1131. 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 1120, 1121, 1131 and/or 2300. May not be taken by native speakers.

ITA 2240. Conversation (3). Prerequisites: ITA 2230 or 2300. May not be taken by native speakers. This course stresses development of conversational skills at the third-year level.

ITA 3420. Grammar and Composition (3). Prerequisite: ITA 2230 or 2300. 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. A continuation of ITA 3420 with greater stress on theme-writing skills.

ITA 3440. Business Italian (3). Prerequisite: ITA 2230, 2300, 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). Prerequisite: ITA 1120, 1121, 1130, 1131, or equivalent. This course develops skilled undergraduate tutors for the Dartmouth method ITA 1130/1131 sequence. May be repeated to a maximum of six (6) semester hours.

ITA 4410.* Advanced Italian Conversation (3). Prerequisites: ITA 3420, 3421, or their equivalents. The 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. The 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, 3101, or equivalent. The course surveys Italian culture and civilization and provides a historical perspective to aspects of Italian society.

ITA 4905r. Directed Individual Study (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 (6) semester hours.

ITA 4930r.* Special Topics (3). Prerequisite: Divisional permission. 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 (9) semester hours.

ITA 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine (9) semester hours, three (3) 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.

ITA 4942r. Internship in Applied Italian (1–6). (S/U grade only.) Prerequisite: Advanced standing in Italian. 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) semester hours.

Italian Literature in Translation

ITT 3430. Masterpieces of Italian Literature in Translation (3). After a brief overview of history of Italian literature, this course offers discussion and analysis of English translations of novels, short stories, and plays by such figures as Boccaccio, Machiavelli, Goldoni, Alfieri, Manzoni, Pirandello, Deledda, and Moravia. May be counted for major or minor credit.

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. Topics include the *Risorgimento* to the formation of the nation; Fascism's influence on the national culture; the Italian miracle of the postwar period; the North/South Question; the "Made in Italy" label in design; and the social phenomenon of immigration into Italy. 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.

Italian Literature (Writings)

ITW 3100. Survey of Italian Literature: Origins through 18th-Century (3). Prerequisite: ITA 2230, 2300 or equivalent. This course introduces students to representative literary figures and movements from the beginnings through the 18th-century (Dante to Goldoni).

ITW 3101. Survey of Italian Literature: 19th- and 20th-Centuries (3). Prerequisite: ITW 3100. This course introduces students to representative literary figures and movements from the 19th- and 20th-centuries (Alfieri to Moravia).

ITW 3391r. Italian Cinema (3). Study of modern Italian cinema from political and social realism to the postwar New Wave. May be repeated to a maximum of six (6) semester hours.

ITW 4400.* Renaissance Literature (3). Prerequisite: ITW 3100, 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). Prerequisite: ITW 3100, 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 (6) semester hours.

ITW 4480. 20th-Century Literature (3). Prerequisite: ITW 3100, 3101, or equivalent. This course offers readings and discussions of figures and movements in 20th-century Italian literature including Moravia, Svevo, Pirandello, Silone, and others.

ITW 4481. Readings in Contemporary Italian Prose (3). Prerequisite: ITW 3100, 3101, or equivalent. This course offers readings and discussions of works of contemporary Italian writers including Pavese, Cassola, Sciascia, Berto, Ginzburg, Tomasi di Lampedusa, Buzzati, Vittorini, and Viganò.

ITW 4700r. The Trecento Writers (3). Prerequisites: ITW 3100, 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. May be repeated to a maximum of nine (9) semester hours.

Japanese

Japanese Language

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, 2200 and/or 2300.

JPN 1121. Elementary Japanese II (4). Prerequisite: JPN 1120 or its equivalent. This course continues to stress speaking, reading, listening and writing skills using the syntactic and morphological points introduced in JPN 1120. Further study will be made of the Japanese syllabaries and kanji. May not be taken by native speakers. May not be taken concurrently with JPN 1120, 2200 and/or 2300.

JPN 2200. 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 2200. May not be taken by native speakers. 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 concurrently with JPN 1120, 1121 and/or 2200.

JPN 3230. Readings in Short Stories and Essays (3). Prerequisite: JPN 2300. Selected materials in modern Japanese literature, humanities, and social sciences are introduced. The objectives of this course are to train students to be able to read some carefully chosen original works and to bring to students awareness various cross-cultural differences. May not be taken by native speakers.

JPN 4905r. Directed Individual Study (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 (6) semester hours.

JPN 4930r. Special Topics (3). Prerequisite: Divisional permission. 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 (9) semester hours.

JPN 4942r. Internship in Applied Japanese (1-6). (S/U grade only.) Prerequisite: Advanced standing in Japanese. 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) semester hours.

JPT 4020r. Japanese Calligraphy (1). Prerequisite: JPN 1120 or its 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 (2) semester hours.

Korean

Korean Language

KOR 1120. Elementary Korean I (4). This course places emphasis upon speaking and listening, although the learning of reading and writing skills is an integral part of the course. The writing system hangul is introduced at the outset. May not be taken by native speakers. May not be taken concurrently with KOR 1121 and/or 2200.

KOR 1121. Elementary Korean II (4). Prerequisite: KOR 1120 or its equivalent. This course continues to emphasize speaking and listening, as well as reading and writing skills. The writing system hangul is studied in further detail. May not be taken by native speakers. May not be taken concurrently with KOR 1120 and/or 2200.

KOR 2200. Reading and Conversation (4). Prerequisite: KOR 1121 or equivalent. May not be taken by native speakers. This course continues to emphasize speaking and listening skills and introduces more of the essentials of Korean grammar, but more time is devoted to reading and writing. This course completes the baccalaureate degree requirement. May not be taken concurrently with KOR 1120 and/or 1121.

Linguistics

Note: all linguistics courses taken for Spanish major credit must be taken through the Department of Modern Languages.

LIN 3041. Introductory Linguistics for Foreign Language Majors (3). The purposes of this course are to 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.

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 ProtoIndo-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 4512. Introduction to Transformational Grammar (3). The purpose of this course is to expose students to the underlying principles of the transformational approach to syntax. Students are taught the mechanics of writing transformational rules. Other competing theories of the late 1960s are also discussed so that students can appreciate the strength and weakness of each theory.

LIN 4905r. Directed Individual Study (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 (6) semester hours.

LIN 4930. Topics in Linguistics (3). Students arrange with individual faculty members to undertake study in areas outside the regular curriculum.

Portuguese (Brazilian)

Portuguese Language

POR 1120. Elementary Portuguese I (4). A first semester course in Portuguese for beginning students. This course will emphasize the four basic communicative skills of listening, reading, speaking and writing in a culturally authentic context. Basic grammar skills are also introduced.

POR 1121. Elementary Portuguese II (4). Prerequisite: POR 1120. A second semester course in Portuguese for beginning level students. This course will emphasize the four basic communicative skills of listening, reading, speaking, and writing in a culturally authentic context.

POR 2200. Intermediate Portuguese (4). Prerequisites: POR 1120, 1121. A third semester course in Portuguese for intermediate level students. This course will emphasize 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). An intensive course in Brazilian Portuguese for advanced students of Spanish. This course 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: A 3000 level course in Spanish (completed or concurrent enrollment). A continuation of POR 3140: An intensive course in Brazilian Portuguese for advanced students of Spanish. This course 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 4905r. Directed Individual Study (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 (6) semester hours.

POR 4930r. Special Topics (3). Prerequisite: Divisional permission. 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 (9) semester hours.

PRT 3391. Brazilian Literature and Film in Translation (3). An overview of the works of prominent Brazilian writers from Machado de Assis to the present and films from *Black Orpheus* through Cinema Novo. Counts toward major or minor in Latin American and Caribbean Studies.

Russian

Russian Language

RUS 1120. Elementary Russian I (4). Introduction to 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 2200.

RUS 1121. Elementary Russian II (4). Prerequisite: RUS 1120 or its equivalent. Continuation of RUS 1120. May not be taken by native speakers. May not be taken concurrently with RUS 1120 and/or 2200.

RUS 2200. Intermediate Russian (4). Prerequisite: RUS 1121 or equivalent. Grammar, reading, and conversation. May not be taken by native speakers. May not be taken concurrently with RUS 1120 and/or 1121.

RUS 3240. Reading and Conversation (3). Prerequisite: RUS 2200 or equivalent. Oral expression is emphasized.

RUS 3400. Conversation and Composition (3). Prerequisite: RUS 2200 or equivalent. Oral expression, writing practice, and review of grammar.

RUS 3420. Russian Grammar and Composition (3). Prerequisite: RUS 2200 or equivalent. Development of writing and grammar skills.

RUS 4410.* Advanced Russian Conversation (3). Prerequisite: RUS 3400. Styles and levels of oral expression on a wide range of topics.

RUS 4421.* Advanced Russian Grammar and Composition (3). Prerequisite: RUS 3420. Practical application of advanced language skills.

RUS 4780.* Phonetics (3). Prerequisite: RUS 2200 or consent of instructor. 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 3420 or equivalent. The development of the phonological and grammatical systems from the earliest records to the present.

RUS 4905r. Directed Individual Study (3). Students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum.

RUS 4930r. Special Topics (3). May be repeated to a maximum of twelve (12) semester hours.

RUS 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine (9) semester hours, three (3) 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. 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) semester hours.

Russian Courses in Translation

RUT 3110. Russian Literature in English Translation (3). Readings and discussion of major Russian literary works.

RUT 3500. Modern Russian Life (3). An overview of current social and cultural issues in Russian, including the legacy of the Soviet period, the relationship between literature and daily life, womens 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 Slavic (Russian) major. Taught in English.

RUT 3800. Introductory Russian to English Translation (3). Essentials of translation techniques. Requires grade of B or better in RUS 2200 (or equivalent) or permission of the instructor.

RUT 3801r. Advanced Russian to English Translation (3). Prerequisite: Successful completion of RUS 3460 (or equivalent) or permission of the instructor. Practicum in translation of contemporary publicistic prose. May be repeated to a maximum of six (6) semester hours.

Russian Literature (Writing)

RUW 3100, 3101. Survey of Russian Literature I, II (3, 3). Prerequisite: RUS 2200 or equivalent.

RUW 3391r. Russian Cinema (3). Viewing and discussion of Soviet classics and contemporary films. Credit may be applicable to the Russian major. Knowledge of Russian recommended but not required. May be repeated when content varies to a maximum of six (6) semester hours.

RUW 4370. Russian Short Story and Povest (3). Prerequisite: RUW 3100, 3101, or equivalent.

RUW 4470r. Modern Russian Literature (3). Prerequisite: RUW 3100, 3101, or equivalent. May be repeated to a maximum of nine (9) semester hours.

RUW 5930r. Special Topics (3).

Serbo-Croatian

Serbo-Croatian Language

SEC 3131–3132. Accelerated Serbo-Croatian (three [3] hours each.) Prerequisite: SEC 3131 or equivalent for 3132. Study of the basic elements of conversational Serbo-Croatian. May not be taken by native speakers.

SEC 4905r. Directed Individual Study (3). Students arrange with individual faculty members to undertake specialized study in areas outside of or in addition to the regular curriculum.

Serbo-Croatian (Writings)

SCW 3101. Survey of Serbo-Croatian Literature (3). Readings in Serbo-Croatian literature, intensive discussion and composition on works read.

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). 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 (6) 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 in a culturally authentic context. Students will read short texts and write paragraphs and short compositions in Spanish. May not be taken concurrently with SPN 1121, 1130, and/or 2200. May not be taken by native speakers. Some sections may be computer-assisted.

SPN 1121. Elementary Spanish II (4). Prerequisite: SPN 1120 or its equivalent. This course is the second of a three-semester sequence of courses and is designed for students with 1120-level knowledge of Spanish. The course emphasizes oral communication and grammatical expertise, as well as listening comprehension in a culturally authentic context. Students will read short texts, poems, and write compositions in Spanish. May not be taken by native speakers. May not be taken concurrently with SPN 1120, 1130, and/or 2200.

SPN 1130. Comprehensive Elementary Spanish (4). This is a one-semester course designed for those students who have had at least two (2) years of high school Spanish (or the equivalent), but who do not feel ready to go directly into SPN 2200 Intermediate Spanish. May not be taken by native speakers. Students passing SPN 1130 with a grade of C or better are eligible to enroll in SPN 2200.

SPN 2160r. Spanish for Careers (4). Prerequisites: SPN 1120 and 1121, or 1130, or the permission of the instructor. 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. May be repeated as content varies to a maximum of eight (8) semester hours. With approval of the department, may fulfill the Arts and Sciences language requirement.

SPN 2200. Intermediate Spanish (4). Prerequisite: SPN 1121, 1130, or equivalent. This is the third in a three-semester sequence of courses, and is designed for students with 1121-level knowledge of Spanish. The course emphasizes oral communication and grammatical expertise, as well as listening comprehension in a culturally authentic context. Students will read short stories, poems, and articles, and will write extended compositions and papers in Spanish. May not be taken concurrently with SPN 1120, 1121, and/or 1130. May not be taken by native speakers.

SPN 2240. Intermediate Spanish II (3). Prerequisite: SPN 2200 or equivalent. This course completes the intermediate Spanish skills sequence and finishes the review of the grammar sequence begun in SPN 2200. Students deepen their functional skills in comprehending, speaking, reading and writing Spanish and gain an overview of Hispanic culture in various countries. May not be taken by native speakers.

SPN 3332. Communication in Language and Culture I (3). Prerequisite: SPN 2240 or permission of instructor. This course uses an integrated skills approach to develop an understanding of Hispanic culture and to extend the growth of communicative proficiency in Spanish.

SPN 3333. Communication in Language and Culture II (3). Prerequisite: SPN 3332 or permission of instructor. This course is the second semester of the integrated skills sequence. In this course, students will deepen their understanding of Hispanic culture and the development of communicative proficiency and accuracy in the language.

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 3440. Language and Culture in Business (3). Corequisite: SPN 3333 or permission of instructor. This is an intermediate-level language course 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 3510. Cultures of Iberia (3). Corequisite: SPN 3333 or permission of instructor. This course provides students with fundamental knowledge about the cultures and history of the Iberian peninsula in an effort to enhance their cultural and historical knowledge. This course also aims to improve their basic communicative skills in Spanish.

SPN 3520. Cultures of Latin America (3). Corequisite: SPN 3333 or permission of instructor. This course provides students with fundamental knowledge about the cultures and history of Latin America in an effort to enhance their cultural and historical knowledge. This course also aims to improve their basic communicative skills in Spanish.

SPN 4420.* Advanced Spanish Composition and Translation (3). Prerequisite: SPN 3333 or equivalent. Stresses composition in Spanish with less emphasis on translation from Spanish into English. For students with prior knowledge of essential points of Spanish grammar.

SPN 4440.* Business Writing in Spanish (3). Letter writing, business terminology, conducting business in the Hispanic world.

SPN 4540r. Regional Cultural Studies (3). Prerequisite: SPN 3333 or permission of instructor. 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 (6) semester hours.

SPN 4740. Hispanic Sociolinguistics (3). Prerequisite: SPN 3333 or permission of instructor. This course provides students with a cultural and linguistic awareness of the Spanish language and of the various and numerous societies in which it is spoken. Topics that relate to Spanish may include linguistic variation, language and gender, the sociology of language, the rights of linguistic minorities, language movements, and language policy.

SPN 4780.* Spanish Phonetics (3). Prerequisite: SPN 3333 or equivalent. Training in the production of acceptable speech sounds in Spanish and a knowledge of when to use those sounds (allophonic distribution). Class meets both in the classroom and in the language laboratory. The nonnative speaker can profit most from this course.

SPN 4905r. Directed Individual Study in Hispanic Language (3). The approval of the faculty member, the divisional coordinator, the Associate Chair for Undergraduate Studies, and the department chair is required. The student and the faculty member will meet each week. May be repeated to a maximum of six (6) semester hours.

SPN 4930r. Studies in Hispanic Language (3). Prerequisite: Spanish majors and minors only with at least six (6) semester hours in Spanish at the 3000 or 4000 level or permission of the instructor. May be repeated when content varies for a maximum of six (6) semester hours.

SPN 4935r. Honors Thesis (1–6). May be repeated to a maximum of nine (9) semester hours, three (3) 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. 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) semester hours.

Spanish Literature in Translation

SPT 3130. Latin American Literature in Translation (3). 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. Does not count toward major or minor in Spanish. Taught in English.

Spanish Literature (Writings)

SPW 3030. Approaching Hispanic Literature (3). Corequisite: SPN 3332 or permission of instructor. 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). Prerequisite: SPW 3030 or permission of instructor. 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 Modern Spain (3). Prerequisite: SPW 3030 or permission of instructor. This course provides students, through a variety of readings and written and oral activities, with a fundamental knowledge of the critical issues related to modern Spain from 1700 to the present. Such topics may include gender issues, dictatorship and socialism, and Europeanization.

SPW 3132. Readings from Early Spanish America (3). Prerequisite: SPW 3030 or permission of instructor. 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 3391r. Hispanic Cinema (3). Study of the movements and directors of Hispanic cinema with emphasis on the postwar New Wave. May be repeated to a maximum of six (6) semester hours. May not be taken for major or minor literature credit. Taught in English.

SPW 3493. Readings from Modern Spanish America (3). Prerequisite: SPW 3030 or permission of instructor. Through a variety of readings and written and oral activities, this course provides students with knowledge about modern Spanish America, from 1800 to the present. Topics may include indigenous and Afro-Caribbean cultures, multiculturalism, revolutions, globalization and border issues.

SPW 4140r. The Poetics of Hispanic Love and Violence (3). Prerequisites: Two 3000-level literature courses or permission of instructor. 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 will introduce and engage 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 (6) semester hours.

SPW 4150r. Transatlantic Encounters (3). Prerequisites: Two 3000-level literature courses or permission of instructor. 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 (6) semester hours.

SPW 4190r.* Special Topics in Hispanic Languages and Literature (3). Prerequisites: Two SPW 3000-level courses or equivalent. Variable topics chosen from Spanish language movements, periods, figures, and problems. May be repeated to a maximum of six (6) semester hours.

SPW 4301r. Hispanic Culture and Performance (3). Prerequisites: Two 3000-level literature courses or permission of instructor. The study of 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 (6) semester hours.

SPW 4481. Contemporary Spanish Women Writers (3). Prerequisites: Two 3000-level literature courses. Course introduces the student to the works of 20th-century Spanish women writers and the critical attention they have received.

SPW 4491. Spanish-American Women Writers (3). Prerequisites: Two 3000-level literature courses. The study of 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 4770. Caribbean Literature (3). Prerequisites: Two 3000-level literature courses or permission of instructor. 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 4905r. Directed Individual Study in Hispanic Literature (3). The approval of the faculty member, the divisional coordinator, the Associate Chair for Undergraduate Studies and

the department chair is required. The student and the faculty member will meet each week. May be repeated to a maximum of six (6) semester hours.

SPW 4930r. Studies in Hispanic Literature (3). Prerequisites: Spanish majors and minors only with at least six (6) semester hours in SPW courses at the 3000 or 4000 level or permission of the instructor. May be repeated when content varies for a total of six (6) semester hours.

Graduate Courses

FOW 6907r. Directed Readings (1–6). (S/U grade only.)

Chinese

CHI 5505r. Reading in Chinese Literature (3).

CHI 5906r. Directed Individual Study (3). (S/U grade only.)

CHI 5910r. Supervised Research (1–5). (S/U grade only.)

CHI 5940r. Teaching Practicum (0–5). (S/U grade only.)

Czech

CZE 5914r. Directed Individual Study (3). (S/U grade only.)

Foreign and Biblical Languages

FOL 5934r. Problems and Studies in Modern Languages and Literature (3).

FOL 6735. Romance Linguistics (3).

Foreign Writings

FOW 5025. Critical Theory and Its Application to Non-English Literatures (3).

French

French Language

FRE 5055. French Culture and Civilization for Graduate Students (3).

FRE 5060. Graduate Reading Knowledge in French (3). (S/U grade only.)

FRE 5069. Reading Knowledge Examination (0). (S/U grade only.)

FRE 5456. Comparative Stylistics (3).

FRE 5505. French Culture and Civilization (3).

FRE 5535. Post-Colonial Cultures in France (3).

FRE 5755. Old French (3).

FRE 5756. Reading in Old French Language (3).

FRE 5855. Structure of Modern French (3).

FRE 5900r. Studies in French Language and Literature (3).

FRE 5940r. Teaching Practicum (0–5). (S/U grade only.)

FRE 6925r. Tutorial in Professional Issues (0–2). (S/U grade only.)

French Literature in Translation

FRT 5555. Immigration and National Identity in France (3).

French Literature (Writings)

FRW 5315. Classical Theatre of the 17th Century (3).

FRW 5348. Critical History of French Poetry: Origins to Baudelaire (3).

FRW 5355. Contemporary French Poetry (3).

FRW 5415. Old French Literature (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 5597r. Studies in Naturalism and/or Symbolism: Figure or Movement (3).

FRW 5598r. Studies in 20th-Century Pre-War (1900–1940) French Literature: Figure or Movement and/or Genre (3).

FRW 5599r. Studies in 20th-Century Post War (1940) French Literature: Figure or Movement and/or Genre (3).

FRW 5605r. Rabelais and Montaigne (3).

FRW 5745. French Literature of Quebec (3).

FRW 5775r. Black Literature of French Expression (3).

FRW 5906r. Directed Individual Study (3). (S/U grade only.)

FRW 5910r. Supervised Research (1–5). (S/U grade only.)

FRW 5971r. Thesis (1–6). (S/U grade only.)

FRW 6829r. Seminar in Literary Criticism (3).

FRW 6938r. Graduate Seminar in French Literature (3).

German

German Language

GER 5060. Graduate Reading Knowledge in German (3). (S/U grade only.)

GER 5069. 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 5295r. German Cinema (3).

GET 5588r. Studies in a Theme (3).

German Literature (Writings)

GEW 5208r. Studies in a Genre (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 5069. 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.)
- ITA 6925r. Tutorial in Professional Issues (0–2). (S/U grade only.)
- ITA 8966. Master's Comprehensive Exam (0).

Italian Literature (Writings)

- ITW 5415. 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 5705r. The Trecento Writers (3).
- ITW 5905r. Directed Individual Study (3). (S/U grade only.)
- ITW 5910r. Supervised Research (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.)

Linguistics

- LIN 5035. Historical/Comparative Linguistics (3).
- LIN 5045. Descriptive Linguistics (3).
- LIN 5510. Transformational Grammar (3).
- LIN 5772. Computational Linguistics (3).
- LIN 5908r. Directed Individual Study (3). (S/U grade only.)
- LIN 5910r. Supervised Research (1–5).
- LIN 5932. Topics in Linguistics (3).

Portuguese (Brazilian)**Portuguese Language**

- POR 5069. 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 (1–5). (S/U grade only)

Russian**Russian Language**

- RUS 5060r. Graduate Reading Knowledge in Russian (3). (S/U grade only.)
- RUS 5069. Reading Knowledge Examination (0). (S/U grade only.)
- RUS 5415r. Graduate Russian Conversation and Comprehension (3). (S/U grade only.)
- RUS 5455r. Russian Stylistics (3).
- RUS 5705. Structure of Modern Language (3).
- 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 5405. Old Russian Literature (3).
- RUW 5445. Russian 18th-Century Literature (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 (1–5). (S/U grade only.)
- RUW 5930r. Special Topics (3).

Serbo-Croatian

- SEC 5900r. Studies in Serbo-Croatian Language and Literature (3).
- SEC 5906r. Directed Individual Study (3). (S/U grade only.)
- SEC 5910r. Supervised Research (1–5). (S/U grade only.)

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 5060. Graduate Reading Knowledge in Spanish (3). (S/U grade only.)
- SPN 5069. Reading Knowledge Examination (0). (S/U grade only.)

- SPN 5795. Phonology of Spanish (3).
- SPN 5805. Spanish Morphology and Syntax (3).
- SPN 5845. History of the Spanish Language (3).
- SPN 5855. Advanced Spanish Grammar and Composition (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 5216. Spanish Golden Age Prose (3).
- SPW 5269. Spanish 19th-Century Novel (3).
- SPW 5275. Spanish 20th-Century Novel (3).
- SPW 5315. Spanish Golden Age Theater (3).
- SPW 5325. Spanish 20th-Century Drama (3).
- SPW 5337. Spanish Poetry through 1700 (3).
- SPW 5338. Spanish Poetry from 1700 to Present (3).
- SPW 5356. Early and Modern Spanish American Poetry through Modernism (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 5497. 20th-Century Spanish-American Drama (3).
- SPW 5606. Cervantes (3).
- SPW 5757. 20th Century Mexican Prose (3).
- SPW 5908r. Directed Individual Study (3). (S/U grade only.)
- SPW 5910r. Supervised Research (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).
- SPW 6939r. Seminar on a Spanish American Author (3).

For listings relating to graduate course work 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, TELEVISION, AND RECORDING ARTS

SCHOOL OF MOTION PICTURE, TELEVISION, AND RECORDING ARTS

Dean: Frank Patterson; *Director:* Reb Braddock; *Associate Professor:* Richard; *Filmmakers in Residence:* Allen, Chase, Fernandez, Holland, Kaleko, Kiefer, Lottimer, Portman, Portorreal, Ruben; *Distinguished Visiting Filmmaker At Large:* A.C. Lyles; *Screenwriters in Residence:* Johnson, Long; *Visiting Assistants:* Bradburn, Ellison

The Florida State University School of Motion Picture, Television, and Recording Arts (the Film School) offers a bachelor of fine arts (BFA) and master of fine arts (MFA). The BFA combines schooling in filmmaking with solid grounding in liberal studies. The curriculum directs students through the program in such a way that they will begin learning the special language of film by making short 16mm silent films, progress to 16mm double system sound films, and culminate with a senior thesis film. The Film School funds all student production expenses, including those of the thesis films, a portion of production design, and catering. Screenwriting, production, and film analysis are viewed as part of an integrated process. The goal of the program is to produce educated, literate, creative filmmakers; the focus of the program is on fictional narrative films. Undergraduate students in the BFA program will receive a well-rounded liberal arts education which includes writing courses. The major courses include producing, directing, screenwriting, editing, camera and lighting, sound, production management, film history, filmstyles and film aesthetics. Please consult the *Graduate Bulletin* for information regarding the MFA program.

The purpose of these curricula 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 School of Motion Picture, Television, and Recording Arts are to fully educate students and to help them become integral members of the academic community of The Florida State University, responsible members of the entertainment profession, and participants in a creative and artistic process.

The program in motion picture, television, and recording arts is under constant review and subject to change. For further information, please refer to <http://filmschool.fsu.edu>.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the

'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years; they may also be completed after admission to the major.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Motion Picture and TV Technology

1. FIL X401 History of Motion Picture I or FIL X400 History of Motion Picture.
2. FIL X100 Film and Television Writing or any general screen or script-writing course.

Requirements for a Major in Motion Picture, Television, and Recording Arts

This major emphasizes three areas: production skills, screenwriting, and interpretative analysis. Traditional classes will be supplemented with 1) problem-solving seminars simulating entertainment business dilemmas; 2) laboratory courses in production techniques; and 3) screenings and workshops conducted by active film professionals.

The degree will require completion of a minimum of one hundred twenty (120) semester hours. For a sample listing of the required curriculum plan, please refer to <http://filmschool.fsu.edu>.

Admission

This is a limited access program, therefore admission is selective and competitive. Approximately fifteen freshmen and fifteen transfer students are admitted each year as film students. A student seeking to enter the program must offer an acceptable grade point average (GPA) and be eligible for admission to FSU. Freshmen majors will not enroll in film major classes prior to their sophomore year in order to concentrate full-time on fulfilling liberal studies requirements. Summer enrollment of freshmen could be required in order to complete seventy-five percent (75%) of the liberal studies requirements prior to continuing in the fall as a sophomore. Admission into the film major as a transfer student requires that seventy-five percent (75%) of the liberal studies requirements be completed by Fall admission.

A separate application must be submitted to The Florida State University Office of Admissions, as well as the School of Motion Picture, Television and Recording Arts.

All applicants must submit a 500–1,000 word essay describing their background, artistic experiences, creative influences, personal objectives, and future career goals, as well as a resume, two (2) letters of recommendation, transcripts from all high schools, colleges and universities attended, and SAT or ACT test scores.

Do **not** submit portfolio items such as VHS tapes, writing samples, photos, etc. Deadline for application to the undergraduate program is December 15th for students seeking admission in the Fall semester. Applications are available online at <http://filmschool.fsu.edu>.

Grade Requirements

BFA students must maintain a "B" average in all major requirements.

Retention

All students must meet the University's minimum retention standards. Additionally, continuation as a major in the Film School 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/or Dismissal

Film majors will adhere to the University Academic Honor System, Student Conduct Code, and Summons to Responsible Freedom.

At the end of each semester, the faculty and director will meet to discuss the work, behavior, grades and progress of the majors. Certain students will be notified of probation or dismissal by a letter stating their status, with an invitation to meet with the director. A student may be placed on probation or dismissal under the following circumstances:

1. Cumulative GPA falls below 3.0 in all major requirements resulting in a one semester 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 will result in dismissal from the program. Attendance will be taken in all classes at the beginning of class. Anyone not in class at that time will be considered absent; anyone leaving class early may also be counted as absent. Approval of absences is up to the instructor and will require documentation to confirm the legitimacy of the absence;
2. Professional behavior is expected of film majors at all times. Therefore, behavior so negative, disruptive or destructive as to compromise the work of fellow students or the effectiveness of the faculty and/or inability to work positively in a collaborative environment shall constitute grounds for probation or immediate dismissal without any prior period of

probation. Peer evaluations may be considered in this evaluation process. A student on probation will be reinstated in good standing if, in the judgment of the faculty and the director, behavioral problems have been corrected. A student's failure to correct problems will result in dismissal from the program;

3. Any unauthorized use or possession, or willful destruction of Film School equipment, facilities, film stock or finished film will result in immediate notification to the proper authorities. The outcome of their decisions will determine the actions of the Film School with respect to the student(s) involved.

Liberal Studies Program

All undergraduates majoring in film are required to meet The Florida State University liberal studies requirements as specified in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*. It is recommended students register for CHM 1020, Chemistry for Liberal Studies, and PHY 1020, Fundamentals of Physics, as electives or to fulfill the requirement in the natural science area of liberal studies. These courses benefit the student in preparation for sound and lighting courses.

Transfer Students

Fifteen transfer students will be accepted into the School of Motion Picture, Television, and Recording Arts for admission in the fall and they are required to have completed seventy-five percent (75%) of the liberal studies requirements prior to the fall semester. A separate application must be submitted to both The Florida State University Office of Admissions, as well as the School of Motion Picture, Television and Recording Arts. Applications are available online at <http://filmschool.fsu.edu>. All applicants with an acceptable GPA must submit a 500–1,000 word essay describing their background, artistic experiences, creative influences, personal objectives, and future career goals, as well as a resume, two (2) letters of recommendation, transcripts from all high schools, colleges and universities attended, and SAT or ACT test scores. All application materials must be received by the School of Motion Picture, Television, and Recording Arts by December 15th for the applicant to be considered for admission the following fall semester. Transfer students must satisfy the same major requirements and curriculum as students who take all of their course work in the School of Motion Picture, Television, and Recording Arts.

Honors in the Major

The undergraduate Film School offers a program in honors in the major to encourage talented juniors and seniors to write a feature length screenplay (or undertake independent and original research) as part of the Bachelor of Fine Arts degree. For requirements and other information, see the "University Honors Program 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 Film School 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 Film School. Registration will be administratively canceled at the end of the second week of classes for any students failing to provide proof of insurance.

Film Studies Minor in the School of Motion Picture, Television, and Recording Arts

Director: Reb Braddock, Film School

The film studies minor will give students the opportunity to select a program of study that examines the many facets of American and international films. 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 study theories, film directors, and film aesthetics.

Requirements for a Minor in Film Studies

The interdisciplinary minor requires the completion of fifteen (15) semester hours in courses approved for film studies. All students are required to take either FIL 2001, Introduction to Motion Picture and Television Appreciation, or FIL 2000, Elements of Film. The remaining hours may be selected from the film studies offerings. Courses counted toward the film studies minor cannot be counted toward the major.

For additional information on a film minor, please email Meryl Warren at mwarren@filmschool.fsu.edu.

Core Courses (One Required of all Minors)

FIL	2000	Elements of Film (3)
FIL	2001	Introduction to Film (3)

Other Film Studies Courses

ENG	3110	Film Genres (3)
ENG	3115	Film Theory and Criticism (3)
FIL	3106	Film and Television Writing (3)
FIL	3503	Contemporary Cinema (3)
FRW	3391r	French Cinema (3)
GEW	3391r	German Cinema (3)
HUM	3321	Multicultural Dimensions of Film and 20th-Century Culture (3)
ITW	3391r	Italian Cinema (3)
RTV	3001	Media Techniques (3)

RUW	3391r	Russian Cinema (3)
SPW	3391r	Hispanic Cinema (3)

Definition of Prefix

FIL — Film

Undergraduate Courses

FIL 2001. Introduction to Film (3). Introduction to the basic terminology, techniques, and contributions of filmmaking and critical analysis skills of film/video form and content.

FIL 2110. Screenwriting I (3). Prerequisite: Majors only. Introduction to the basic techniques of screenwriting and storyboarding. Exercises in story structure, dialogue, and character development. Introduction to screenwriting and storyboarding computer software.

FIL 2201. Filmmaking I (3). Prerequisite: Majors only. Provides a basic understanding of film production technology, equipment operation, terminology, and techniques.

FIL 2211. Film Editing (3). Prerequisite: Majors only. Analyzes, discusses and puts into practice the skills and techniques required to edit a narrative motion picture.

FIL 2291. Film Sound (3). Prerequisite: Majors only. Teaches the principles of sound and the basic practices involved in creating a motion picture sound track. Also covers the aesthetic use of sound in motion pictures.

FIL 2400. History of Motion Pictures (3). Prerequisite: Majors only. Overview of film as an industry, mass medium and art form.

FIL 3111. Screenwriting II (3). Prerequisite: Majors only. Development of sophisticated story ideas, treatments, character biographies, storyboards, step-outlines, first drafts, and revisions of both original ideas and adaptations.

FIL 3202. Filmmaking II (3). Prerequisite: Majors only. Provides understanding of objective oriented acting techniques and developing an effective method for working with actors in rehearsal and on set. Requires directing a short film project.

FIL 3231r. Documentary Filmmaking (1–6). Prerequisite: Majors only. 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 (6) semester hours.

FIL 3251. Film Camera and Lighting (3). Prerequisite: Majors only. Provides a theoretical and practical knowledge of all aspects of cinematography cameras and lenses, filmstocks, exposure, lights, lighting and composition.

FIL 3502r. Film Styles (3–6). Prerequisite: Majors only. Analyzes motion picture form and content through the styles of filmmakers with emphasis on genres, national movements, and other topics of interest. May be repeated to a maximum of six (6) semester hours.

FIL 3922r. Film Genres and Filmmakers (1). Prerequisite: Majors only. Provides students the opportunity to view historical and current films followed by discussions in an academic forum.

FIL 3932r. Special Topics (3–12). Prerequisite: Majors only. An analysis of specialized topics in motion pictures. May be repeated to a maximum of twelve (12) semester hours. May be repeated during the same semester.

FIL 3963. BFA Qualifying Exam (0). Prerequisite: Majors only. Evaluates the progress of the student and recommends continuance in the film school or directs the student toward other areas of study.

FIL 3971r. Thesis Film Support (2–12). (S/U grade only.) Prerequisite: Majors only. Principles and responsibilities of grips, gaffers, assistant directors, assistant camerapersons, and production managers and performance of these responsibilities on the set of BFA thesis films. May be repeated to a maximum of twelve (12) semester hours.

FIL 4112. Screenwriting III (3). Prerequisite: Majors only. Development of thesis script story ideas, treatments, character biographies, storyboards, step-outline, first drafts, and revisions of both original ideas and adaptations.

FIL 4122. Feature Screenwriting: Development (3). Prerequisite: Majors only. Teaches the various techniques of scene breakdown, setting up, sequencing, character development and dialogue development. Also teaches rewriting techniques to strengthen first drafts.

FIL 4123. Feature Screenwriting (3). Prerequisite: Majors only. Teaches aspects of feature screenwriting format, pitching ideas, creating and developing character, story and dialogue.

FIL 4203r. Advanced Filmmaking (3-9). Prerequisite: Majors only. Advanced principles and practice of making a short, sync-sound, 16 mm film. May be repeated to a maximum of nine (9) semester hours.

FIL 4213. Production: Advanced Editing (3). Prerequisite: Majors only. Offers advanced study in film editing techniques and styles.

FIL 4253. Production: Advanced Cinematography (3). Prerequisite: Majors only. Introduces advanced lighting techniques and allows hands-on exercises stressing the creative use of lighting for mood and storytelling.

FIL 4292. Production: Advanced Sound (3). Prerequisite: Majors only. Course provides students a thorough understanding of digital sound recording, sound mixing and various stages of sound post production as it applies to 16mm filmmaking.

FIL 4501. Film Aesthetics (3). Prerequisite: Majors only. Analysis of film which attempts to answer three basic questions: 1) What is film? 2) How do we perceive film? 3) How is an aesthetic developed?

FIL 4602. Film Business Planning (3). Prerequisite: Majors only. 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 4603. Film Exhibition and Advertising (3). Prerequisite: Majors only. To provide background in the marketing, advertising and exhibition of film to the audiences of this product.

FIL 4604. Film Producing and Finance (3). Prerequisite: Majors only. An introduction to the techniques necessary to create a responsible business approach for the production of motion pictures and to create a greater individual awareness of the motion picture producer as a career.

FIL 4605. Film Law (3). Prerequisite: Majors only. Provides a working knowledge of the specialized concepts and vocabulary pertaining to entertainment-related forms of intellectual property and the contractual relationships necessary to finance, create, and license various forms of entertainment.

FIL 4905r. Directed Individual Study (1-3). (S/U grade only.) Prerequisites: Junior standing; majors only. May be repeated to a maximum of six (6) semester hours.

FIL 4910r. Application of Research and Creative Methods (1-3). (S/U grade only.) Prerequisites: Junior standing; majors only. Participation in a faculty or graduate student research and/or creative project. May be repeated to a maximum of six (6) semester hours.

FIL 4923r. Undergraduate Film Seminar (1-6). Prerequisite: Majors only. 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 (6) semester hours.

FIL 4933. Professional Development (3). Prerequisite: Majors only. 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: Majors only. Participation in the instructional process under the strict supervision of a faculty member. May be repeated to a maximum of six (6) semester hours.

FIL 4945r. Professional Internship (3-12). (S/U grade only.) Prerequisite: Majors only. Apprenticeship experience with a company involved in film/video production, distribution, or exhibition. May be repeated to a maximum of twelve (12) semester hours.

FIL 4970r. Thesis Defense (0). (S/U grade only.) Prerequisite: Majors only. Presentation of senior thesis film to the faculty and student body for review and approval.

FIL 4972r. Thesis Film Production Management (3-6). Prerequisite: Majors only. Production management for BFA thesis films. May be repeated to a maximum of fifteen (15) semester hours.

FIL 4973r. Thesis Film (1-15). Prerequisite: Majors only. Study and practice of all the creative aspects of BFA thesis films. May be repeated to a maximum of fifteen (15) semester hours.

FIL 4975r. Undergraduate Honors Thesis (1-6). Prerequisites: Admission to undergraduate film school honors program; majors only. Student must complete a minimum of six (6) semester hours; may be repeated to a maximum of nine (9) semester hours.

FIL 4976. Thesis Script Rewrite (3). Prerequisite: Majors only. Course trains one to articulate on paper an idea that is both discernible and visual in the form of a collection of interesting moments that add up to tell a story.

Graduate Courses

FIL 5005. Introduction to the Motion Picture, Television, and Recording Arts Industry (6).

FIL 5155L. Screenwriting 1: Techniques and Treatments (2-6).

FIL 5156L. Screenwriting 2: Narrative Techniques (2-6).

FIL 5157L. Screenwriting 3: Advanced Workshop (2-6).

FIL 5158. Screenwriting IV: Television Workshop (3).

FIL 5159. Screenwriting V: Motion Picture Workshop (3).

FIL 5209L. Basic Film Production (2-6).

FIL 5215L. Producing 1 (2).

FIL 5216L. Producing 2 (2).

FIL 5217r. Principles and Practice of Technical and Creative Support (3).

FIL 5218r. Basic Video Production (3-6).

FIL 5219. Practicum in Technical Support (3).

FIL 5256L. Sound Workshop (2).

FIL 5257L. Film Editing (2-4).

FIL 5258. Production Design Workshop (3).

FIL 5259L. Postproduction Sound Workshop (2).

FIL 5265Lr. Directing Actors (2).

FIL 5266r. Directing: Multicamera Workshop (3-9).

FIL 5267Lr. Directing: Single-Camera Workshop (2).

FIL 5268Lr. Advanced Directing (2).

FIL 5278L. Camera and Light Mechanics (2-6).

FIL 5279L. Lighting Workshop (2-6).

FIL 5285. Intermediate Television Editing (3).

FIL 5286. Advanced Television Editing (3).

FIL 5295. Acting for the Camera (3).

FIL 5296. Advanced Sound (2-6).

FIL 5415. History and Criticism I (3).

FIL 5416. History and Criticism II (3).

FIL 5505r. Critical Studies in Film and Television (3).

FIL 5506. Critical Methods in Motion Picture, Television, and Recording Arts (3).

FIL 5508. Critical Methods of Film Analysis (3).

FIL 5509r. Film Aesthetics (1).

FIL 5606. Distribution and Financing Workshop (3).

FIL 5615Lr. Advanced Workshop in Area of Specialization (2-12).

FIL 5616r. Preproduction and Production Planning (3-12).

FIL 5617L. Advanced Editing (2-6).

FIL 5705Lr. Production Management (2).

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, Television, and Recording Arts (3).

FIL 5930r. Proseminar in Motion Picture, Television, and Recording Arts (1). (S/U grade only.)

FIL 5931r. Special Topics in Motion Picture, Television, and Recording Arts (3-12).

FIL 5941r. Supervised Teaching (3). (S/U grade only.)

FIL 5955r. Apprenticeship (3-12). (S/U grade only.)

FIL 5962r. MFA Qualifying Project (3-15).

FIL 5964. MFA Qualifying Exam (0). (S/U grade only.)

FIL 5975r. Thesis (3-12). (S/U grade only.)

FIL 5977r. MFA Thesis Production (3-15). (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*.

**MOTOR BEHAVIOR:
see Nutrition, Food and
Exercise Sciences**

**MOVEMENT SCIENCE:
see Nutrition, Food and
Exercise Sciences**

**MULTILINGUAL/
MULTICULTURAL
EDUCATION:
see Middle and Secondary
Education**

Program in MULTINATIONAL BUSINESS OPERATIONS

COLLEGE OF BUSINESS

Program Director: Gary Knight; *Professors:* Giunipero, Stepina; *Associate Professor:* Scott; *Assistant Professors:* Knight, Overby

The curriculum in international business leads to the development of critical thinking ability and analytical thinking skills pertaining to the issues that are faced by firms in the international marketplace, particularly those that relate to strategy formulation and implementation. As such, the international business curriculum furnishes students with the professional skills necessary to conduct international business operations.

The international business program builds upon the liberal studies program of the University and the general business requirements of the College of Business. Additional work in anthropology, economics, geography, modern languages, and political science, in particular, is encouraged.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Requirements for a Major in Multinational Business Operations

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 multinational business operations majors; 3) the general business core requirements for multinational business operations majors; 4) the general business breadth requirements for multinational business operations majors; and 5) the major area requirements for multinational business operations majors.

Note: to be eligible to pursue a multinational business operations major, students must meet the admission requirements of the College of Business. These admission requirements are described in the "College of Business" chapter of this *General Bulletin*.

General Business Core Requirements

All multinational business operations majors must complete the following five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All multinational business operations majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).

Plus two (2) electives from the following:

HFT	3240	Managing Service Organizations (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAR	3700	Professional Selling (3).
QMB	3200	Quantitative Methods for Business Decisions (3).
REE	3043	Real Estate (3).
RMI	3011	Risk Management/Insurance (3).

Major Area Requirements

All multinational business operations majors must complete five (5) courses as listed below. A grade of "C-" or better must be earned in each course used to satisfy the multinational business operations major area requirements.

FIN	4604	Multinational Financial Management (3).
MAN	4605	Cross-Cultural Management (3).
MAN	4631	International Strategic Management (3).
MAR	4156	Multinational Marketing (3).

Plus one (1) elective from the following list of courses:

MAN	4610	Resources and World Enterprises (3).
MAN	4680r	Selected Topics in International Management (3).

Students may substitute an internationally oriented course outside the College of Business approved by the program director or a minor in a foreign language for the one elective above.

Definition of Prefixes

FIN	—	Finance
MAN	—	Management
MAR	—	Marketing

Undergraduate Courses

MAN 3600. Multinational Business Operations (3). Prerequisites: ECO 2013, 2023. Surveys the essentials of international production and trade and the problems managers encounter in international business environments.

Business Majors Only

FIN 4604. Multinational Financial Management (3). Prerequisites: FIN 3403, 3244. Introduces the student to financial management decision making in international environments through the use of cases, projects, and business games.

MAN 4605. Cross-Cultural Management (3). Prerequisite: MAN 3240. 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 4610. Resources and World Enterprises (3). Prerequisites: ECO 2013, 2023. Focuses on the economics and politics of world energy. Examines OPEC, the world oil industry, consuming countries, and alternative energy sources.

MAN 4631. International Strategic Management (3). Prerequisites: ECO 2013, 2023; MAN 3600. Course focuses on the international dimensions of strategic management, including environmental and political issues affecting global competition. Special emphasis is given to the multinational enterprise and strategic options available for effective world-wide competitive advantage.

MAN 4680r. Selected Topics in International Management (3). Prerequisites: ECO 2013, 2023; MAN 3600. Selected topics in international management. Topics will vary depending upon the instructor for the course. May be repeated to a maximum of six (6) semester hours.

MAR 4156. Multinational Marketing (3). Prerequisites: MAR 3023; MAN 3600. Introduces the student to marketing management decision making in international environments through the use of cases and/or business games.

MUSIC

SCHOOL OF MUSIC

Professors: Beckman, Bridger, Capps, Chapo, Ciannella, Clarke, Corzine, Croft, Delp, Drew, Fowler, Gerber, Geringer, Goff, Harsanyi, Hoekman, Kite-Powell, Kosloski, Kowalsky, Kubik, Louwenaar, Madsen, L. Mastrogiacono, Meighan, Ohlsson, D. Olsen, S. Olsen, Piersol, D. Seaton, Shellahamer, Spencer, Spurgeon, Standley, Stroom, Thomas, Wright, Zwilich; *Associate Professors:* Allen, Andrews, Bakan, Bowers, Brewer, Buggs, Clendinning, Dunnigan, Ebbers, Fisher, Ford-Kronholz, Georgiev, Gregory, Holzman, Keesecker, Kennedy, Lata, Lipovetsky, Mathes, Peterson, Pope, Punter, Riordan, Roman, Ryan, Stebleton, D. Wingate; *Assistant Professors:* Anderson, Bish, Buchler, Callender, Fenton, Gaber, Jiménez, Jones, Jordan, Kelly, Newdome, Porter, Rogers, Shaftel, Trujillo, Van Weelden, Von Glahn, M. Wingate; *Visiting Assistant Professors:* Amsler, Beck, N. Mastrogiacono, Ploumis-Devick, Semmes, Vinayak; *Program Directors:* Hodges, McArthur, G. Seaton; *Faculty Librarian:* Clark; *Assistant Librarian:* Markham

The School 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 School of Music:

Bachelor of music—performance

Piano, Piano pedagogy, Organ, Harpsichord, Voice, Strings (violin, viola, cello, double bass), Woodwinds, Brass, Percussion, Harp, Guitar (classical)

Bachelor of music—music theatre

Bachelor of music—composition

Bachelor of music—music theory

Bachelor of music—music history and literature

Bachelor of music—music therapy

Bachelor of music education

Choral

Instrumental

General

Bachelor of arts in music

In addition to the bachelor of music (BM) and bachelor of music education (BME) degrees, the bachelor of arts (BA) degree in music is offered through the School of Music. The School of Music also provides a music minor for the divisions of the University that require a minor course of study.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on “Academic Reference Manual.” Select the 2003-2004 catalog year under the ‘Common Prerequisites Manuals’ subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Music

1. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;
2. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;
3. One course (four [4] semester hours) with the MUN prefix;
4. Two to four (2–4) semester hours of MVx 1X1X;
5. Two to four (2–4) semester hours of MVx 2X2X;
6. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Music Composition

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on “Academic Reference Manual.” Select the 2003-2004 catalog year under the ‘Common Prerequisites Manuals’ subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;
2. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;
3. One course (four [4] semester hours) with the MUN prefix;

4. Two to four (2–4) semester hours of MVx 1X1X;
5. Two to four (2–4) semester hours of MVx 2X2X;

6. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Music History and Appreciation

1. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;
2. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;
3. One course (four [4] semester hours) with the MUN prefix;
4. Two to four (2–4) semester hours of MVx 1X1X;
5. Two to four (2–4) semester hours of MVx 2X2X;
6. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Music Teacher Educations.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
 - b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.
5. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;

6. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;

7. MVx X1X1 and MVx X2X2 (two to four [2-4] semester hours each);

8. One course (four [4] semester hours) with the MUN prefix;

9. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

At least one course taken to meet the natural science requirements in liberal studies must include a laboratory component.

Courses specified in categories 5-9 may be applied to corresponding requirements in liberal arts and sciences noted above.

Music Performance

1. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;

2. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;

3. One course (four [4] semester hours) with the MUN prefix;

4. Two to four (2-4) semester hours of MVx 1X1X;

5. Two to four (2-4) semester hours of MVx 2X2X;

6. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Music Theory

1. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;

2. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;

3. One course (four [4] semester hours) with the MUN prefix;

4. Two to four (2-4) semester hours of MVx 1X1X;

5. Two to four (2-4) semester hours of MVx 2X2X;

6. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Music Therapy

1. MUT 1111*, MUT 1112*, MUT 2116*, MUT 2117*;

2. MUT 1241*, MUT 1242*, MUT 2246*, MUT 2247*;

3. One course (four [4] semester hours) with the MUN prefix;

4. Two to six (2-6) semester hours of MVx 1X1X;

5. Two to six (2-6) semester hours of MVx 2X2X;

6. Secondary Piano* (proficiency by examination).

Note: courses or requirements marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Honors in the Major

The School of Music offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Graduate Degrees

The following are the graduate degrees offered by the School of Music:

Master of music

Performance Accompanying

Piano pedagogy

Choral conducting

Instrumental conducting

Jazz studies

Music theory

Composition

Musicology (both historical and ethnomusicology)

Opera

Music therapy

Master of music education

Master of arts in arts administration

Doctor of philosophy in music education

Doctor of philosophy in music (specializations in historical musicology, ethnomusicology, and music theory)

Doctor of education in music education

Doctor of music in composition

Doctor of music in performance

The doctor of philosophy (PhD) degree in humanities with an emphasis in music is available from the College of Arts and Sciences.

For complete details of undergraduate degree requirements, plus a description of the school, its facilities, opportunities, and available financial assistance, refer to the "School of Music" chapter of this *General Bulletin*. Details of graduate programs can be found in the *Graduate Bulletin*.

Definition of Prefixes

MUC — Music: Composition

MUE — Music: Education

MUG — Music: Conducting

MUH — Music: History/Musicology

MUL — Music: Literature

MUM — Music: Commercial

MUN — Music: Ensembles

MUO — Music: Opera/Music Theatre

MUR — Music: Church Music

MUS — Music

MUT — Music Theory

MUY — Music: Therapy

MVB — Music: Applied Brasses

MVH — Music: Applied Historical Instruments

MVJ — Music: Applied Jazz

MVK — Music: Applied Keyboard

MVO — Music: Applied Other Instruments

MVP — Music: Applied Percussion

MVS — Music: Applied Strings

MVV — Music: Applied Voice

MVW — Music: Applied Woodwinds

Undergraduate Courses

Composition

MUC 1211. Composition (2). Prerequisites: MUT 1111, 1241; consent of composition faculty. For composition majors only. The elements of form and composition.

MUC 2221r. Composition (2). Prerequisite: MUC 1211. For composition majors only. Techniques of composition. May be repeated to a maximum of four (4) semester hours.

MUC 3231r. Composition (3). Prerequisites: MUC 2221r; consent of composition faculty. For composition majors only. May be repeated to a maximum of six (6) semester hours.

MUC 3610r. Film Scoring (3). Prerequisite: Permission of instructor. Techniques of film scoring and review of application requirements. May be repeated to a maximum of six (6) semester hours.

MUC 3620r. Jazz Composition (3). Techniques of creative jazz composition and literature. May be repeated to a maximum of (6) semester hours.

MUC 4103r. Composition (2). Prerequisite: MUT 2117. For non-composition majors only. May be repeated to a maximum of four (4) semester hours.

MUC 4241r. Composition (3). Prerequisite: MUC 3231r. For composition majors only. May be repeated to a maximum of six (6) semester hours.

Music Education

MUE 1090. Orientation to Music Education/Music Therapy (1). (S/U grade only).

MUE 2040. Introduction to Teaching Music (3). Prerequisite: MV (B, J, K, O, S, V, W) 1310r -1319r series or consent of instructor. An introduction to music teaching and learning.

MUE 2290. Personal Growth in Music (2). Systematic study of the elements of music. For non-music majors.

MUE 2390. Teaching Music to Diverse Populations (3). 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 consent of instructor. Corequisite: University Chorale (Summer) or approved substitute. Individual and group vocal techniques for the non-voice music education major.

MUE 2412. Introduction to Wind and Percussion Instruments (2). 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). 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.) An orientation to the career options in music therapy.

MUE 3210. Elementary School Music (3). Prerequisite: MUE 2290 or consent of instructor. The teaching of music in the kindergarten and the first six grades. For non-music majors.

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. Designed for undergraduate music education majors planning to teach general music classes in secondary schools, this course 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). Required of music education instrumental majors.

MUE 3344. Teaching General Music K-12 (3). Prerequisites: MUE 3311, 3334. The rationale, sequence, and learning theory in relation to music for the general student (K-12).

MUE 3443. Introduction to Teaching String Instruments (3). Prerequisite: Admission to professional sequence, or consent of instructor. Teaching and performance techniques for string instruments.

MUE 3456. Techniques and Teaching: Oboe, Bassoon (2). The application of performance and teaching techniques and practices unique to oboe and bassoon.

MUE 3457. Techniques and Teaching: Flute, Clarinet, Saxophone (2). The application of performance and teaching techniques and practices unique to flute, clarinet, and saxophone.

MUE 3465. Techniques and Teaching: Brass Instruments (2). The application of performance and teaching techniques and practices unique to brasses.

MUE 3475. Techniques and Teaching: Percussion Instruments (2). 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). Concurrent registration in MUE 3495r is required.

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). Concurrent registration in MUE 3496r is required.

MUE 3495r-3496r. Music Education Laboratory (one [1] hour each.) Required of all music education majors. MUE 3495r and 3496r each may be repeated to a maximum of four (4) semester hours. 3495r Choral, 3496r Instrumental.

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 4342. The Instrumental Program in the Schools Band (2). Prerequisite: MUE 3343, 3494.

MUE 4391. Music in Special Education (3). 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 4411. Choral Techniques (4). Prerequisite: MUE 3491-3492 or consent of instructor. 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. A study of voice teaching methods for music education majors.

MUE 4480. Marching Band Techniques (1). The study of current marching band techniques, methods, and styles and their application to secondary public school music education programs.

MUE 4481. Jazz Ensemble Techniques (1). A course designed to study the implementation and administration of the jazz ensemble in the public school music program.

MUE 4690. Technology for the Music Classroom (3). Prerequisites: permission of instructor or placement in 2000-level courses. 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: Senior standing, consent of instructor.

Conducting

MUG 3104. Conducting (1). Prerequisite: MUT 1112. The elements of conducting and rehearsal techniques.

MUG 4102. Advanced Conducting (2). Prerequisite: MUG 3104. Continued theory and practice of conducting.

Music History

MUH 2011. Introduction to Music History—Music Appreciation. 18th and 19th Centuries (3). For non-music majors. Meets liberal studies requirements in area IV. A survey of musical expression in relation to the background of the life and art that created it, encompassing the great periods of music history of the 18th and 19th centuries, composers and their musical masterpieces, styles, and forms.

MUH 2012. Music in Western Culture, 19th and 20th Centuries (3). For non-music majors. Meets liberal studies requirements in area IV. A survey of the music literature and composers of the 19th and 20th centuries. This course will explore music and its relation to the other arts, the historical events of the times, and the milieu in which the music literature was created.

MUH 2019. Modern Popular Music (3). A survey of the development of popular music from the 1950s to the present, examining both the music and the cultural, social, economic, technological, and political conditions surrounding that music.

MUH 2051, 2052. Music Cultures of the World I, II (3, 3). For non-music majors only. Meets the University multicultural component for the liberal studies requirements in cross-cultural studies.

MUH 2512, 2513. Music Cultures of the World I, II (2, 2). For music majors only.

MUH 3053. Minority Musics in North America (3). Studies of 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. Meets the University multicultural component

MUH 3211. Survey of Music History I: Antiquity to 1750 (3). Prerequisites: MUL 2110; MUH 2512 or 2513. Required of music majors. Survey of music history from antiquity to 1750.

MUH 3212. Survey of Music History II: 1750 to Present (3). Prerequisite: MUH 3211. Required of music majors. Survey of music history from 1750 to the present.

MUH 4321. History of Music: Medieval (3). Prerequisites: MUH 3211, 3212; consent of instructor.

MUH 4331. History of Music: Renaissance (3). Prerequisites: MUH 3211, 3212; consent of instructor.

MUH 4341. History of Music: Baroque (3). Prerequisites: MUH 3211, 3212; consent of instructor.

MUH 4351. History of Music: Classical (3). Prerequisites: MUH 3211, 3212; consent of instructor.

MUH 4361. History of Music: 19th Century (3). Prerequisites: MUH 3211, 3212; consent of instructor.

MUH 4371. History of Music: 20th Century (3). Prerequisites: MUH 3211, 3212; consent of instructor.

MUH 4541. Music of Latin America I (3). A study of the diverse musical cultures of Latin America, including Native American, European, African, and Asian derived, and syncretic or mestizo forms.

MUH 4542. Music in Latin America II (3). A study of the religious and art music of Latin America from the Colonial Period to the present.

MUH 4543. Music in the Caribbean (3). A survey of 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 will be on gamelan music, especially that of Java and Bali. Popular and experimental Indonesian musical forms, as well as Indonesian-inspired music by Western composers, also will be investigated.

MUH 4572. Music of Japan (3). A study of the traditional music of Japan, emphasizing historical background and cultural contexts, instruments and ensembles, structures and styles, theatrical and dance forms, and contemporary music.

MUH 4582. Seminar in World Music Studies (3). The advanced study of contrasting music cultures from around the world, emphasizing both music as sound and music as culture.

MUH 4591. World Music Pedagogy (3). Prerequisites: MUH 2512, 4582. This course considers theory and practice of teaching undergraduate world music survey courses, including knowledge of and critical approaches to teaching materials in various media.

MUH 4630. Music in the United States (3). Prerequisites: MUH 3211, 3212; MUT 2117. A survey of musical activities in the United States.

MUH 4680. Introduction to Historical Musicology (3). An introduction to the history, scope, and sources of musicological research.

MUH 4681. Senior Seminar in Music History (3). Prerequisite: MUH 4680. Basic research experience in music history.

MUH 4801. History of Jazz I (1890-1950) (2). A study of 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). A study of 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 2110. Survey of Music Literature (2). Prerequisites: MUT 1111, 1112; or their equivalents. Required of music majors and minors.

MUL 3481. Keyboard Literature: Baroque-Early Classic (2). Required of piano and harpsichord performance majors.

MUL 3604. Vocal Solo Literature: German (2). Prerequisite: Junior standing. Required of voice performance majors.

MUL 4371. Music since World War II (3). Recent musical techniques and aesthetics as revealed in selected works.

MUL 4420. Chamber Music Literature for Strings (3). A study of chamber music literature for strings alone, strings with keyboard, and strings with other instruments.

MUL 4430. Guitar Literature I (2). A study of guitar literature from the Renaissance to the Pre-Classical period.

MUL 4431. Guitar Literature II (2). A study of guitar literature from the Classical period to the present.

MUL 4441–4442. Solo Music Literature Seminar: Winds (three [3] hours each.) 4441 Woodwinds, 4442 Brasses.

MUL 4483. Keyboard Literature: Romantic Period (2). Required of piano performance majors.

MUL 4484. Keyboard Literature: 20th Century (2). Required of piano performance majors.

MUL 4490. Survey of Organ Literature (1). A survey of the major schools of organ composition, with particular emphasis on the contribution of organ music to the liturgy of the Western church.

MUL 4600. Survey of Sacred Vocal Literature (1). A survey of the sacred vocal literature available for the liturgical year.

MUL 4605–4608. Vocal Solo Literature (two [2] hours each). Prerequisite: Junior standing. Required of voice performance majors. 4605 French; 4608 Contemporary Song.

MUL 4642. Survey of Sacred Choral Literature (1). A survey of 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). The study of music literature. May be repeated to a maximum of twelve (12) semester hours.

Commercial Music

MUM 4210. Applied Piano Tuning I (3). Prerequisite: permission of instructor. 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. Continued development of tuning skills is examined.

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 permission of instructor. History and fundamental principles of the modern mechanisms of the piano.

MUM 4221. Theory of Piano Technology II (2). Prerequisites: MUM 2250; permission of instructor. Introductory instruction in preparing a piano for concert performance, including tuning, voicing, and regulation.

MUM 4251. Piano Technology I (3). Prerequisite: permission of instructor. 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. Projects include highlighting beginning restoration techniques and introduction to action regulation.

MUM 4253. Piano Technology III (3). Prerequisite: MUM 4252. Advanced repair and restoration techniques are examined.

MUM 4254. Piano Technology IV (3). Prerequisite: MUM 4253. Topics include major repairs and advanced and cutting edge action geometry.

MUM 4260. Organ Design and Maintenance (2). Prerequisite: Consent of instructor. Open to all upper-division organ majors and principals.

Ensembles

Note: all ensemble courses are repeatable.

MUN 2110r. Marching Chiefs (0–1). Prerequisite: By audition. Band experience in marching and concert for all University students. May be repeated to a maximum of four (4) semester hours.

MUN 2120r. Concert Band (0–1). Concert experience in a variety of literature for all University students. May be repeated to a maximum of four (4) semester hours.

MUN 2130r. Symphonic Band (0–1). Prerequisite: By audition. Concert experience in a wide variety of literature. May be repeated to a maximum of four (4) semester hours.

MUN 2140r. Wind Orchestra (0–1). Prerequisite: By audition. Professional-level performance in a wide variety of literature. May be repeated to a maximum of four (4) semester hours.

MUN 2210r. University Symphony (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 2220r. Chamber Orchestra (0–1). Prerequisite: By audition. The study and performance of works suitable for chamber orchestra. Open to selected undergraduate students. May be repeated to a maximum of four (4) semester hours.

MUN 2230r. Opera Orchestra (0–1). Prerequisite: By audition. The study and performance of works drawn from grand opera, operettas, and musicals. May be repeated to a maximum of four (4) semester hours.

MUN 2310r. University Singers (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 2311r. Choral Union (0–1). The reading, study, and performance of choral repertoire for mixed voices. Open to all University students. May be repeated to a maximum of four (4) semester hours.

MUN 2320r. Women's Glee Club (0–1). 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 (4) semester hours.

MUN 2330r. Men's Glee Club (Collegians) (0–1). 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 (4) semester hours.

MUN 2350r. Opera Chorus (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 2390r. University Chorale (0–1). 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 (4) semester hours.

MUN 2420r. Woodwind Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for woodwinds. May be repeated to a maximum of four (4) semester hours.

MUN 2430r. Brass Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for brasses. May be repeated to a maximum of four (4) semester hours.

MUN 2440r. Percussion Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for percussion. May be repeated to a maximum of four (4) semester hours.

MUN 2451r. Duo Piano (1). Prerequisite: Permission of instructor. The study and performance of duo piano and piano duet literature. May be repeated to a maximum of four (4) semester hours.

MUN 2460r. Chamber Music (0–1). Prerequisite: Permission of instructor. The study and performance of vocal and/or instrumental ensemble literature. May be repeated to a maximum of four (4) semester hours.

MUN 2471r. Collegium Musicum (0–1). Prerequisite: Permission of instructor. 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 (4) semester hours.

MUN 2472r. Baroque Ensemble (0–1). Prerequisite: Consent of instructor. May be repeated to a maximum of four (4) semester hours.

MUN 2480r. Guitar Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for guitar. May be repeated to a maximum of four (4) semester hours.

MUN 2510r. Piano Vocal/Instrumental Accompanying (0–1). May be repeated to a maximum of four (4) semester hours.

MUN 2710r. Jazz Ensemble (0–1). Prerequisite: By audition. The study and performance of jazz band literature. May be repeated to a maximum of four (4) semester hours.

MUN 2720r. Jazz-Pop Ensemble (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 2800r. World Music Ensemble (0–1). Prerequisite: Permission of instructor. May be repeated to a maximum of four (4) semester hours.

MUN 4113r. Marching Chiefs (0–1). Prerequisite: By audition. Marching band experience open to all University students with prior marching band experience. May be repeated to a maximum of four (4) semester hours.

MUN 4123r. Concert Band (0–1). Concert experience in a variety of literature for all University students. May be repeated to a maximum of four (4) semester hours.

MUN 4133r. Symphonic Band (0–1). Prerequisite: By audition. Concert experience in a wide variety of literature. May be repeated to a maximum of four (4) semester hours.

MUN 4143r. Wind Orchestra (0–1). Prerequisite: By audition. Professional-level performance in a wide variety of literature. May be repeated to a maximum of four (4) semester hours.

MUN 4144r. Chamber Winds (0–1). 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 (4) semester hours.

MUN 4213r. University Symphony (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 4223r. Chamber Orchestra (0–1). Prerequisite: By audition. The study and performance of works suitable for chamber orchestra. Open to selected undergraduate students. May be repeated to a maximum of four (4) semester hours.

MUN 4233r. Opera Orchestra (0–1). Prerequisite: By audition. The study and performance of works drawn from grand opera, operettas, and musicals. May be repeated to a maximum of four (4) semester hours.

MUN 4313r. University Singers (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 4314r. Choral Union (0–1). The reading, study, and performance of choral repertoire for mixed voices. Open to all University students. May be repeated to a maximum of four (4) semester hours.

MUN 4323r. Women's Glee Club (0–1). 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 (4) semester hours.

MUN 4333r. Men Glee Club (Collegians) (0–1). 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 (4) semester hours.

MUN 4343r. Chamber Chorus (0–1). Prerequisite: By audition. The study and performance of accompanied and a cappella works suitable for a 24–30 voice mixed chorus. May be repeated to a maximum of four (4) semester hours.

MUN 4353r. Opera Chorus (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 4363r. Madrigal Singers (0–1). Prerequisite: By audition. The study and performance of sacred and secular chamber music of the 16th and 17th centuries and of contemporary works suitable for a small group of singers. May be repeated to a maximum of four (4) semester hours.

MUN 4393r. University Chorale (0–1). 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 (4) semester hours.

MUN 4413r. String Ensemble (0–1). Prerequisites: By audition and/or consent of instructor. The study and performance of works for string ensemble. May be repeated to a maximum of four (4) semester hours.

MUN 4423r. Woodwind Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for woodwinds. May be repeated to a maximum of four (4) semester hours.

MUN 4433r. Brass Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for brasses. May be repeated to a maximum of four (4) semester hours.

MUN 4443r. Percussion Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for percussion. May be repeated to a maximum of four (4) semester hours.

MUN 4454r. Duo Piano (1). Prerequisite: Permission of instructor. The study and performance of duo piano and piano duet literature. May be repeated to a maximum of four (4) semester hours.

MUN 4463r. Chamber Music (0–1). Prerequisite: Permission of instructor. The study and performance of vocal and/or instrumental ensemble literature. May be repeated to a maximum of four (4) semester hours.

MUN 4474r. Collegium Musicum (0–1). Prerequisite: Permission of instructor. 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 (4) semester hours.

MUN 4475r. Baroque Ensemble (0–1). Prerequisite: Consent of instructor. May be repeated to a maximum of four (4) semester hours.

MUN 4483r. Guitar Ensemble (0–1). Prerequisite: Permission of instructor. The study and performance of ensemble literature for guitar. May be repeated to a maximum of four (4) semester hours.

MUN 4513r. Piano Vocal/Instrumental Accompanying (0–1). May be repeated to a maximum of four (4) semester hours.

MUN 4713r. Jazz Ensemble (0–1). Prerequisite: By audition. The study and performance of jazz band literature. May be repeated to a maximum of four (4) semester hours.

MUN 4723r. Jazz-Pop Ensemble (0–1). Prerequisite: By audition. 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 (4) semester hours.

MUN 4803r. World Music Ensemble (0–1). Prerequisite: Permission of instructor. May be repeated to a maximum of four (4) semester hours.

Opera/Music Theatre

MUO 3503r. Opera Workshop (2). Prerequisite: Consent of instructor. The study of all phases of operatic production, with emphasis on and participation in staged operatic excerpts. May be repeated to a maximum of four (4) semester hours.

MUO 4006r. Music Theatre Workshop (2). Prerequisites: Music theatre major and permission of instructor. Provides opportunities for upper-division music theatre students to synthesize and refine advanced music theatre performance skills, including advanced acting, auditioning, movement, and dance. May be repeated to a maximum of eight (8) semester hours.

MUO 4451r. Performance of Stage Role (1–2). Prerequisite: Audition. May be repeated to a maximum of eight (8) semester hours.

MUO 4502r. Opera Workshop (2). The study of all phases of operatic production, with emphasis on and participation in staged operatic excerpts. May be repeated to a maximum of four (4) semester hours.

Church Music

MUR 4201. Hymnology (2). A practical and historical study of the Church's song.

MUR 4411. Organ History and Literature to the 18th Century (2). 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). 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.) Required of all undergraduate music majors. Unlimited repeatability.

MUS 1710. First Year Experience in Music (0). An introductory course for all first-year music students to introduce them to selected resources in the Warren D. Allen Music Library, the online search capabilities of WebLuis and FirstSearch, and the research activities of faculty from the School of Music.

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 (4) semester hours.

MUS 2360. Introduction to Technology in Music (1). Prerequisites: MUT 1112 or equivalent; sophomore standing. Introductory survey of computer technology in music, including hardware, software, computer-based instruction, multimedia and internet.

MUS 3320. Contemporary Media (3). Understanding the world of commercial music and techniques in personal marketability.

MUS 3340. Music Instrument Digital Interface (3). Develop techniques in electronic music composition and all aspects of MIDI.

MUS 3341r. Laboratory for Music Instrument Digital Interface (2). Laboratory application of MUS 3340. May be repeated to a maximum of six (6) semester hours.

MUS 3500. Seminar in Music Technology (2). Practical and theoretical issues in music technology: purchasing and evaluating computer music systems, music hardware and software issues, copyrights and ethics in technology, historical contexts, societal and educational issues, future directions in computers and music, and other issues.

MUS 3530. Beginning C Computer Programming Techniques for Musicians (3). Introduction to microcomputer-based interactive graphics programming in the C language, including the designing and implementation of music computer programs.

MUS 3531. Multimedia for Musicians (3). Prerequisite: MUS 3500 or 3530 or permission of instructor. Provides students with a basic knowledge of multimedia hardware and software systems, particularly as they relate to music. Students will develop multimedia projects. May be repeated to a maximum of six (6) semester hours.

MUS 3533r. Computers in Music Design Seminar (3). Prerequisite: MUS 3531. Discussions and experiences in music instructional design. May be repeated to a maximum of six (6) semester hours.

MUS 3540. Electronics for Musicians (3). Prerequisite: MUS 3500. Basic concepts and practical experiences in digital and analog electronics for musicians.

MUS 3541. Digital Music Synthesis I (3). Prerequisite: Permission of instructor. This course will provide 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 will provide students with basic knowledge of both digital and analog sound distortion and synthesis and resynthesis techniques and will allow them to explore the technology and art of digital music production.

MUS 3932r. Computer Music Project (1). Prerequisite: Permission of instructor; students must first complete all courses in the Certificate in Computer Music Program (or equivalent). The development of computer-based hardware and/or software projects in music technology. May be repeated to a maximum of three (3) semester hours.

MUS 3934r. Special Topics in Music (1–3). Prerequisite: Consent of instructor. May be repeated to a maximum of nine (9) semester hours.

MUS 3942r. Music Peer Advisement Practicum (0). (S/U grade only.) Introduction to leadership skills necessary for advising and counseling in the School of Music. May be repeated to a maximum of four (4) times.

MUS 4221. 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 melodies and operas.

MUS 4231. 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 4241. 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: Basic course in psychology. 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. Consideration of applied research methods in psychology of music through examination of selected research studies and behavioral projects.

MUS 4743. Writing for Musicians (2). Experience in types of writing that are particularly useful to musicians: analyses, program notes, performance reviews, and research paper.

MUS 4904r. Honors Study (1–6). Prerequisite: Consent of instructor. May be repeated to a maximum of nine (9) semester hours.

MUS 4905r. Directed Individual Study (1–3). Prerequisite: Consent of instructor. May be repeated to a maximum of (9) semester hours.

MUS 4928r. Workshop in Music (2–6). Techniques in instruction and administration of music programs. Unlimited repeatability as long as the subject matter changes.

MUS 4936r. Senior Tutorial in Music (1–3). (S/U grade only.) Prerequisite: Upper division music majors only. Selected topics in music. May be repeated to a maximum of six (6) semester hours.

MUS 4970r. Senior Project/Thesis/Recital (2). (S/U grade only.) Prerequisites: Senior standing, consent of instructor, and, for students performing a recital, completion by jury of MV_3000 level applied music. May be repeated to a maximum of four (4) semester hours.

Music Theory

MUT 1001. Fundamentals of Music Theory (3). An introductory course that covers the rudimentary fundamentals of music theory, including the basic properties of notation, scales, intervals, triads, and rhythmic notation.

MUT 1011. Music Theory for the Non-Music Major (3). A practical, analytical, and performance-oriented application of the fundamental materials of music theory. Meets liberal studies requirement in area IV. Not open to students who have successfully completed one (1) or more semesters of music theory.

MUT 1111. Music Theory I (3). The materials and structures of music.

MUT 1121. Music Theory II (3). Prerequisite: MUT 1111. The materials and structures of music.

MUT 1241. Sight Singing and Ear Training I (1). The development of skills in sight singing and ear training.

MUT 1242. Sight Singing and Ear Training II (1). Prerequisite: MUT 1241. The development of skills in sight singing and ear training.

MUT 2116. Music Theory III (3). Prerequisite: MUT 1112. The materials and structures of music.

MUT 2117. Music Theory IV (3). Prerequisite: MUT 2116. The materials and structures of music.

MUT 2246. Sight Singing and Ear Training III (1). Prerequisite: MUT 1242. The development of skills in sight singing and ear training.

MUT 2247. Sight Singing and Ear Training IV (1). Prerequisite: MUT 2246. The development of skills in sight singing and ear training.

MUT 2641r. Jazz Improvisation I (1). Skills in beginning jazz improvisation. May be repeated to a maximum of three (3) semester hours.

MUT 2642r. Jazz Improvisation II (1). Knowledge and technical skills in jazz improvisation. May be repeated to a maximum of three (3) semester hours.

MUT 3353. Jazz Theory/Arranging I (3). Prerequisites: MUT 2117 and 2247. A course designed to promote skills in arranging for the jazz ensemble.

MUT 3354. Jazz Theory/Arranging II (3). Prerequisite: MUT 3353 or consent of instructor. Advanced skills in arranging for the jazz ensemble.

MUT 3421–3422. 18th-Century Counterpoint (two [2] hours each). Prerequisite: MUT 2117 and 2247. The study of contrapuntal techniques of the 18th century.

MUT 3541. Form and Style: Classic (3). Prerequisites: MUT 2117 and 2247. The study of 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 2247. Stylistic studies of 19th-century music.

MUT 3571. 20th-Century Styles (3). Prerequisites: MUT 2117 and 2247. Stylistic studies of 20th-century music.

MUT 3641r. Jazz Improvisation I (1). Prerequisite: Music reading is required. Skills in beginning jazz improvisation. May be repeated to a maximum of three (3) semester hours.

MUT 3642r. Jazz Improvisation II (1). Prerequisite: MUT 3641r or consent of instructor. Advanced skills in jazz improvisation. May be repeated to a maximum of three (3) semester hours.

MUT 4311. Orchestration (2). Prerequisites: MUT 3421–3422. The study of 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 2247. The study of contrapuntal techniques of the 16th century.

Music Therapy

MUY 3601. Music Recreation Techniques (3). Prerequisite: Class guitar (MVS 1116) or consent of instructor.

MUY 4401. Music Therapy: Methods and Practicum I (3). Prerequisites: Senior standing in music therapy, completion of MUS 4612; or consent of instructor.

MUY 4402. Music Therapy: Methods and Practicum II (3). Prerequisite: MUY 4401. The applications of music therapy in all fields of health, corrections, and special education.

MUY 4940r. Clinical Internship in Music Therapy (1–12). (S/U grade only.) Prerequisite: Completion of all course work in music therapy. Six-month resident internship in an affiliated, approved, clinical center. May be repeated once only and to a maximum of twenty (20) semester hours.

Applied Music

MV(B, J, K, O, P, S, V, W) 1010r–1019r. Applied Music (two [2] 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 (4) 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 (1) hour for all instruments.

MVB 1011r. App Mus Prep, Trumpet

MVB 1012r. App Mus Prep, French Horn

MVB 1013r. App Mus Prep, Trombone

MVB 1014r. App Mus Prep, Baritone Horn

MVB 1015r. App Mus Prep, Tuba

MVJ 1010r. App Mus Prep, Piano, Jazz

MVJ 1011r. App Mus Prep, Voice, Jazz

MVJ 1012r. App Mus Prep, Violin, Jazz

MVJ 1013r. App Mus Prep, Guitar, Jazz

MVJ 1014r. App Mus Prep, Bass, Jazz

MVJ 1015r. App Mus Prep, Flute, Jazz

MVJ 1016r. App Mus Prep, Saxophone, Jazz

MVJ 1017r. App Mus Prep, Trumpet, Jazz

MVJ 1018r. App Mus Prep, Trombone, Jazz

MVJ 1019r. App Mus Prep, Percussion, Jazz

MVK 1011r. App Mus Prep, Piano

MVK 1013r. App Mus Prep, Organ

MVO 1010r. Modified Credit, All Instruments (1–2).

MVP 1011r. App Mus Prep, Percussion

MVS 1011r. App Mus Prep, Violin

MVS 1012r. App Mus Prep, Viola

MVS 1013r. App Mus Prep, Violoncello

MVS 1014r. App Mus Prep, Double Bass

MVS 1015r. App Mus Prep, Harp

MVS 1016r. App Mus Prep, Guitar

MVV 1011r. App Mus Prep, Voice

MVW 1011r. App Mus Prep, Flute

MVW 1012r. App Mus Prep, Oboe

MVW 1013r. App Mus Prep, Clarinet

MVW 1014r. App Mus Prep, Bassoon

MVW 1015r. App Mus Prep, Saxophone

MVO 1010r–4040r. Undergraduate Coaching (one to two [1–2] hours each). All instruments. Principal only. May be repeated to a maximum of four (4) 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, permission of coordinator of class piano. Class instruction. For music majors other than keyboard principals and performance majors. Elementary keyboard techniques and musicianship. May be repeated to a maximum of two (2) semester hours.

MVV 1111. Class Voice (1). Prerequisite: Consent of coordinator of class voice. Class instruction in the fundamentals of voice production. Elementary level.

MVS 1116. Beginning Class Guitar (1). 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 [2] hours each). Private instruction. For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four (4) 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 1210r. App Mus Sec, Historical Instruments (1–2).

MVH 1211r. App Mus Sec, Cupped Mouthpieces (1–2).

MVH 1212r. App Mus Sec, Open Reeds (1–2).

MVH 1213r. App Mus Sec, Capped Reeds (1–2).

MVH 1214r. App Mus Sec, Recorder (1–2).

MVH 1215r. App Mus Sec, Flute (1–2).

MVH 1216r. App Mus Sec, Plucked Instruments (1–2).

MVH 1217r. App Mus Sec, Bowed Strings (1–2).

MVH 1218r. App Mus Sec, Voice (1–2).

MVH 1219r. App Mus Sec, Dulcimer, Portative Organ, Regal, Percussion (1–2).

MVK 1211r. App Mus Sec, Piano

MVK 1212r. App Mus Sec, Harpsichord

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 [2] hours each). Private instruction. Principal instrument. For students whose major is not performance. Each course may be repeated to a maximum of six (6) 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 1312r.	App Mus Prin, Violin, Jazz
MVJ 1313r.	App Mus Prin, Guitar, Jazz
MVJ 1314r.	App Mus Prin, Bass, Jazz
MVJ 1315r.	App Mus Prin, Flute, 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 1312r.	App Mus Prin, Harpsichord
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, K, O, P, S, V, W) 1410r–1416r. Applied Music Major (four [4] hours each: piano, harpsichord, organ, strings, harp, guitar; three [3] hours each: piano pedagogy, voice, woodwinds, brasses, percussion). Private instruction. Major instrument. For performance majors. Each course may be repeated to a maximum of twelve (12) semester hours by piano, harpsichord, organ, string, harp, and guitar majors; nine (9) semester hours by piano pedagogy, 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
MVK 1411r.	App Mus Maj, Piano
MVK 1412r.	App Mus Maj, Harpsichord
MVK 1413r.	App Mus Maj, Organ
MVK 1416r.	App Mus Maj, Piano Pedagogy
MVO 1410r.	Modified Credit, All Instruments
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
MVV 1412r.	App Mus Maj, Oboe
MVV 1413r.	App Mus Maj, Clarinet
MVV 1414r.	App Mus Maj, Bassoon
MVV 1415r.	App Mus Maj, Saxophone

MVK 1612. Directed Observation in Piano Pedagogy: Preschool through Precollege (1). 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 1111r (2) or consent of coordinator of class piano. Class instruction. For music majors other than keyboard principals and performance majors. Sightreading, harmonizing, transposing, improvising, intermediate keyboard techniques, repertoire, and musicianship. May be repeated to a maximum of two (2) semester hours.

MVK 2125. Keyboard Improvisation (1). Prerequisite: MUT 1112. 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 consent of instructor. Class instruction in intermediate folk guitar styles and techniques.

MV(B, H, K, O, P, S, V, W) 2220r–2229r. Applied Music Secondary (two [2] hours each). Private instruction. (See course description for MV[B, H, K, O, P, S, V, W] 1210r–1219r series.) For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four (4) semester hours. Credit may be modified by electing MVO 2220r (1), 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) 2320r–2329r. Applied Music Principal (two [2] hours each). Private instruction. Principal instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1310r–1319r series.) For students whose major is not performance. Each course may be repeated to a maximum of six (6) semester hours. Credit may be modified by electing MVO 2320r (1), all instruments.

MV(B, K, O, P, S, V, W) 2420r–2426r. Applied Music Major (four [4] hours each: piano, harpsichord, organ, strings, harp, guitar; three [3] hours each: piano pedagogy, voice, woodwinds, brasses, percussion). Private instruction. Major instrument. (See course description for MV[B, K, O, P, S, V, W] 1410r–1416r series.) For performance majors. May be repeated to a maximum of twelve (12) semester hours by piano, harpsichord, organ, string, harp, and guitar majors; nine (9) semester hours by piano pedagogy, voice, woodwind, brass, and percussion majors. Credit may be modified by electing MVO 2420r (2), all instruments.

MVS 2520r. String Repertory (1). Required of string performance majors. May be repeated to a maximum of two (2) semester hours.

MVS 2526r. Guitar Repertory (1). Prerequisite: Consent of instructor; Corequisite: MVS 2426r. Required of guitar performance majors. Course may be repeated to maximum of two (2) semester hours.

MVK 2622. Directed Observation in Piano Pedagogy: College (1). Provides students with the opportunity to observe private and class piano instruction on the college level.

MVK 2700. Piano Accompanying Vocal (1). Techniques, artistic skills, and repertory for accompanying. Required of piano performance majors.

MVK 2701. Piano Accompanying Instrumental (1). Techniques, artistic skills, and repertory for accompanying. Required of piano performance majors.

MVK 3131r. Class Piano (1). Prerequisite: MVK 2121r (2) or permission of coordinator of class piano. Class instruction. For music majors other than keyboard principals and performance majors. Continuation of MVK 2121r with emphasis upon increased skills, including open score reading and accompanying. May be repeated to a maximum of two (2) semester hours.

MVV 3131r. Class Voice (1). Prerequisite: Permission of instructor. Class instruction. For dance and theatre majors. Fundamentals of voice production. May be repeated to a maximum of two (2) semester hours.

MVS 3136. Advanced Class Guitar (1). Prerequisite: MVS 2126 or consent of instructor. Class instruction in advanced folk guitar styles and techniques.

MV(B, H, K, O, P, S, V, W) 3230r–3239r. Applied Music Secondary (two [2] hours each). Private instruction. (See course description for MV[B, H, K, O, P, S, V, W] 1210r–1219r series.) For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four (4) semester hours. Credit may be modified by electing MVO 3230r (1), all instruments. All MVH courses may be taken for one (1) or two (2) credit hours.

MV(B, J, K, O, P, S, V, W) 3330r–3339r. Applied Music Principal (two [2] hours each). Private instruction. Principal instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1310r–1319r series.) For students whose major is not performance. Each course may be repeated to a maximum of six (6) semester hours. Credit may be modified by electing MVO 3330r (1), all instruments.

MV(B, K, O, P, S, V, W) 3430r–3436r. Applied Music Major (five [5] hours each: harpsichord, harp; four [4] hours each: piano, strings, woodwinds, brasses, percussion, guitar; three [3] hours each: organ, voice, piano pedagogy). Private instruction. Major instrument. (See course description for MV[B, K, O, P, S, V, W] 1410r–1416r series.) For performance majors. May be repeated to a maximum of fifteen (15) semester hours by harpsichord, and harp majors; twelve (12) semester hours by piano, string, woodwind, brass, percussion, and guitar majors; nine (9) semester hours by organ, voice and piano pedagogy majors. Credit may be modified by electing MVO 3430r (2–3), all instruments.

MVS 3501r. Orchestral Repertoire for Violin (1). (S/U grade only.) Prerequisite: Permission of the instructor. May be repeated to a maximum of two (2) semester hours.

MVS 3530r. String Repertory (1). Required of string performance majors. May be repeated to a maximum of two (2) semester hours.

MVV 3532r. Musical Theatre Repertory (1). Prerequisite: Consent of instructor. For music theatre majors. Course may be repeated to a maximum of four (4) semester hours.

MVS 3536r. Guitar Repertory (1). Prerequisite: Consent of instructor; Corequisite: MVS 3436r. Required of guitar performance majors. Course may be repeated to a maximum of two (2) semester hours.

MVK 3631. Piano Pedagogy I (3). Prerequisite: Junior standing or consent of instructor.

MVK 3632. Piano Pedagogy II (3). Prerequisite: MVK 3631. Intermediate piano pedagogy subjects.

MVK 3930r. Continuo Playing Keyboard (1). Prerequisite: Consent of instructor. May be repeated to a maximum of two (2) semester hours.

MVW 3700r. Introduction to Baroque Flute (1). Prerequisite: Consent of instructor. 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 (4) semester hours.

MVW 3701r. Introduction to the Baroque Recorder (1). Prerequisite: Consent of instructor. 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 (4) semester hours.

MV(B, K, P, S, V, W) 3950. Certificate Recital (zero [0] hours credit). (S/U grade only.) Prerequisite: Consent of instructor.

MV(B, K, P, S, V, W) 3970. Junior Recital (zero [0] hours credit). (S/U grade only.) Prerequisite: Consent of instructor. Required junior recital for performance majors.

MV(B, H, K, O, P, S, V, W) 4240r–4249r. Applied Music Secondary (two [2] hours each). Private instruction. (See course description for MV[B, H, K, O, P, S, V, W] 1210r, 1219r series.) For students whose curriculum requires study of a secondary instrument. Each course may be repeated to a maximum of four (4) semester hours. Credit may be modified by electing MVO 4240r (1), 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 [2] hours each). Private instruction. Principal instrument. (See course description for MV[B, J, K, O, P, S, V, W] 1310r–1319r series.) For students whose major is not performance. Each course may be repeated to a maximum of twelve (12) semester hours, except MVJ series which may only be repeated to a maximum of six (6) semester hours. Credit may be modified by electing MVO 4340r (1), all instruments.

MV(B, K, O, P, S, V, W) 4440r–4446r. Applied Music Major (five [5] hours each: piano, harpsichord, harp; four [4] hours each: organ, strings, woodwinds, brasses, percussion, guitar; three [3] hours each: voice, piano pedagogy). Private instruction. Major instrument. (See course description for MV[B, K, O, P, S, V, W] 1410r–1416r series.) For performance majors. May be repeated to a maximum of twenty (20) semester hours by piano, harpsichord, organ, and harp majors; eighteen (18) semester hours by string, woodwind, brass, percussion, and guitar majors; nine (9) semester hours by voice and piano pedagogy majors. Credit may be modified by electing MVO 4440r (2), all instruments.

MVS 4540r. String Repertory (1). Required of string performance majors. May be repeated to a maximum of two (2) semester hours.

MVV 4542r. Musical Theatre Repertoire (1). Prerequisite: Consent of instructor. For music theatre majors. Course may be repeated to a maximum of four (4) semester hours.

MVS 4546r. Guitar Repertory (1). Prerequisite: Consent of instructor; Corequisite: MVS 4446r. Required of guitar performance majors. Course may be repeated to a maximum credit of two (2) semester hours.

MVK 4600. Organ/Harpsichord Pedagogy (2). Prerequisite: Consent of instructor. Equips students with teaching skills in organ/harpsichord.

MVO 4640. Wind Instrument and Percussion Pedagogy (3). Prerequisite: Junior standing in major instrument. The methods and materials of wind instrument and percussion pedagogy.

MVK 4641. Advanced Piano Pedagogy I (3). Prerequisite: MVK 3632 or consent of instructor. Current and expanded pedagogy concepts and materials and techniques for teaching advanced or adult students.

MVV 4641. Vocal Pedagogy (2). Prerequisite: Junior standing in voice. A study of voice teaching methods.

MVK 4642. Advanced Piano Pedagogy II (3). Prerequisite: MVK 4641. 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 (4) semester hours.

MVK 4931. Service Playing (2). Prerequisite: Consent of instructor. Open to all upper-division organ majors and principals.

MV(B, K, P, S, V, W) 4971r. Senior Recital (zero [0] hours credit). (S/U grade only.) Prerequisite: Completion of MV_333_required; consent of instructor. 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).

Music Education

- MUE 5045. Social and Historical Foundations of American Music Education (3).
- MUE 5046. Sociology of Music Education (3).
- MUE 5145. Significant Developments in Music Education Curricula (3).
- MUE 5185. College Music Administration (3).

- MUE 5316. Organizing and Teaching in General Education (3).
- MUE 5396. Music in Special Education (3).
- MUE 5426. Advanced Techniques in Choral Music (3).
- MUE 5427. Advanced Techniques in Instrumental Music (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 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.)

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. Masters Recital: Choral Conducting (2). (S/U grade only.)
- MUG 5976. Wind Ensemble/Band Masters Recital: Chamber (2). (S/U grade only.)
- MUG 5977. Wind Ensemble/Band Masters Recital: Large Ensemble (2). S/U grade only.)
- MUG 5978. Masters Recital: Orchestral Conducting (2). (S/U grade only.)

Jazz Studies

- MVJ 5976. Masters Recital: Recital Preparation (2). (S/U grade only.)
- MVJ 5977. Masters Recital (2). (S/U grade only.)

Music History

- MUH 5219. Music History Graduate Survey (2).
- 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 Century (3).
- MUH 5380. Music in the Humanities (3).
- MUH 5410. Notation of Polyphonic Music to 1600 (3).
- MUH 5411. Notation of Polyphonic Music II (3).
- MUH 5546. Music of Latin America I (3).

- MUH 5547. Music of Latin America II (3).
- MUH 5548. Music in the Caribbean (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 5806. History of Jazz (1890–1950) (2).
- MUH 5807. History of Jazz (1950 to the present) (2).
- MUH 6687r. Advanced Seminar in Musicology I (3).
- MUH 6688r. Advanced Seminar in Musicology II (3).

Music Literature

- MUL 5375. Music since World War II (3).
- MUL 5412. Solo Music Literature Seminar Piano: Baroque to Classic (2).
- MUL 5413. Solo Music Literature Seminar Piano: Classic to Romantic (2).
- MUL 5414. Solo Music Literature Seminar Piano: Romantic (2).
- MUL 5415. Solo Music Literature Seminar Piano: 20th 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: Brass (3).
- MUL 5456. Ensemble Literature for Wind and Percussion Instruments (3).
- MUL 5495. Survey of Organ Literature (1).
- MUL 5505, 5506. Symphonic Literature I, II (3, 3).
- 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 5645. Choral Literature (2).
- MUL 5647. Survey of Sacred Choral Literature (1).

- MUL 5656. Choral Masterworks: Romantic/Contemporary (3).
 MUL 5677. Seminar in Opera Literature: Monteverdi to the Present (2).
 MUL 5678. Seminar in Opera Literature: The Music Dramas of Wagner (2).
 MUL 5751. Pedagogy of Music Literature and Appreciation (2).
 MUL 5852. The Music of W.A. Mozart (3).
 MUL 5854. The Music of Igor Stravinsky (3).
 MUL 5936r. Special Topics in Music Literature (1–3).

Commercial Music

- MUM 5215. Applied Piano Tuning I (3).
 MUM 5216. Applied Piano Tuning II (3).
 MUM 5217. Applied Piano Tuning III (3).
 MUM 5218. Applied Piano Tuning IV (3).
 MUM 5225. Theory of Piano Technology I (2).
 MUM 5226. Theory of Piano Technology II (2).
 MUM 5256. Piano Technology I (3).
 MUM 5257. Piano Technology II (3).
 MUM 5258. Piano Technology III (3).
 MUM 5259. Piano Technology IV (3).
 MUM 5265. Organ Design and Maintenance (2).
 MUM 5805. Introduction to Arts Administration (3).
 MUM 5807. Survey of Orchestra Management (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 5225r. Chamber Orchestra (0–1).
 MUN 5235r. Opera Orchestra (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 5808r. 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 (0–4).
 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. Contemporary Media (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 5505. Seminar in Music Technology (2).
 MUS 5535. Beginning C Computer Programming Techniques for Musicians (3).
 MUS 5536. Multimedia for Musicians (3).
 MUS 5538r. Computers in Music Design Seminar (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 5748. Writing for Musicians (2).
 MUS 5906r. Directed Individual Study (1–3). (S/U grade only.)
 MUS 5910r. Supervised Research (1–3). (S/U grade only.)
 MUS 5921r. Symposium in Music (1–6).
 MUS 5929r. Workshop in Music (1–6).
 MUS 5930. Seminar in Contemporary Instructional Techniques in Music (3).
 MUS 5931r. Arts Administration Seminar (1).
 MUS 5933r. Computer Music Project (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 (1–12). (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 5381. Composing and Arranging for Wind Band (3).
 MUT 5445. Contrapuntal Genres (3).
 MUT 5587. Classic, Romantic, and 20th-Century Styles (3).
 MUT 5618. Analysis of Masterworks 1700–1950 (3).
 MUT 5625. Instrumental Forms (3).
 MUT 5627. Introduction to Schenkerian Analysis (3).
 MUT 5628. Atonal Analysis (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 5751. Pedagogy of Music Theory [three (3) hours each].
 MUT 5760. History of Music Theory (3).
 MUT 6937, 6938r. Doctoral Seminar in Music Theory (3, 3).

Music Therapy

- MUY 5411. Music in Counseling (2).
 MUY 5705. Assessment Instruments in Music Therapy/Music Education (2).
 MUY 5935. Seminar 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 [2] hours each).
 MVB 5251r. App Mus Sec, Trumpet
 MVB 5252r. App Mus Sec, French Horn
 MVB 5253r. App Mus Sec, Trombone
 MVB 5254r. App Mus Sec, Baritone Horn
 MVB 5255r. App Mus Sec, Tuba
 MVH 5250r. App Mus Sec, Historical Instruments (1–2).

MVH 5251r.	App Mus Sec, Cupped Mouthpieces (1–2).	MVW 5351r.	App Mus Prin, Flute	MVK 5710.	Piano Accompanying Vocal (1).
MVH 5252r.	App Mus Sec, Open Reeds (1–2).	MVW 5352r.	App Mus Prin, Oboe	MVK 5711.	Piano Accompanying Instrumental (1).
MVH 5253r.	App Mus Sec, Capped Reeds (1–2).	MVW 5353r.	App Mus Prin, Clarinet	MVK 5730r.	Applied Music Major, Vocal Accompanying (4).
MVH 5254r.	App Mus Sec, Recorder (1–2).	MVW 5354r.	App Mus Prin, Bassoon	MVK 5731r.	Applied Music Major, Instrumental Accompanying (4).
MVH 5255r.	App Mus Sec, Flute (1–2).	MVW 5355r.	App Mus Prin, Saxophone	MVK 5732r.	Applied Music Opera Coaching (4).
MVH 5256r.	App Mus Sec, Plucked Instruments (1–2).	MV(B, K, O, P, S, V, W) 5450r–5456r.	Applied Music Major (four [4] hours each) (MVV 5451 three [3] hours).	MVK 5745.	Techniques of Vocal Coaching (2).
MVH 5257r.	App Mus Sec, Bowed Strings (1–2).	MVB 5451r.	App Mus Maj, Trumpet	MVK 5746.	Techniques of Coaching Chamber Music (2).
MVH 5258r.	App Mus Sec, Voice (1–2).	MVB 5452r.	App Mus Maj, French Horn	MVK 5747.	Techniques of Opera Coaching (2).
MVH 5259r.	App Mus Sec, Dulcimer, Portative Organ, Regal, Percussion (1–2).	MVB 5453r.	App Mus Maj, Trombone	MVK 5935r.	Continuo Playing Keyboard (1).
MVK 5251r.	App Mus Sec, Piano	MVB 5454r.	App Mus Maj, Baritone Horn	MVK 5936.	Service Playing (2).
MVK 5252r.	App Mus Sec, Harpsichord	MVB 5455r.	App Mus Maj, Tuba	MV(B, K, P, S, V, W) 5955.	Certificate Recital (zero [0] hours credit). (S/U grade only.)
MVK 5253r.	App Mus Sec, Organ	MVJ 5450r.	App Mus Maj, Piano, Jazz	MV(B, K, P, S, W) 5976–5977.	Masters Recital (two [2] hours each). (S/U grade only.)
MVO 5250r.	Modified Credit, All Instruments (1).	MVJ 5451r.	App Mus Maj, Voice, Jazz	MVV 5976r.	Masters Voice Recital Coaching (2).
MVP 5251r.	App Mus Sec, Percussion	MVJ 5452r.	App Mus Maj, Violin, Jazz	MVV 5977.	Masters Recital (Voice) (0). (S/U grade only.)
MVS 5251r.	App Mus Sec, Violin	MVJ 5453r.	App Mus Maj, Guitar, Jazz	MVK 5973r.	Masters Recital, Vocal Accompanying (1). (S/U grade only.)
MVS 5252r.	App Mus Sec, Viola	MVJ 5454r.	App Mus Maj, Bass, Jazz	MVK 5974r.	Masters Recital, Instrumental Accompanying (1). (S/U grade only.)
MVS 5253r.	App Mus Sec, Violoncello	MVJ 5455r.	App Mus Maj, Flute, Jazz	MVK 5975.	Masters Recital: Piano Pedagogy (0). (S/U grade only.)
MVS 5254r.	App Mus Sec, Double Bass	MVJ 5456r.	App Mus Maj, Saxophone, Jazz	MVO 6060r.	Applied Music Graduate Coaching (1–2).
MVS 5255r.	App Mus Sec, Harp	MVJ 5457r.	App Mus Maj, Trumpet, Jazz	MVO 6065r.	Applied Music Graduate Coaching (2–4).
MVS 5256r.	App Mus Sec, Guitar	MVJ 5458r.	App Mus Maj, Trombone, Jazz	MV(B, K, O, P, S, V, W) 6260r–6266r.	Applied Music Secondary (two [2] hours each).
MVV 5251r.	App Mus Sec, Voice	MVJ 5459r.	App Mus Maj, Percussion, Jazz	MVO 6260r.	Modified credit, All Instruments (1).
MVW 5251r.	App Mus Sec, Flute	MVK 5451r.	App Mus Maj, Piano	MV(B, J, K, O, P, S, V, W) 6360–6369r.	Applied Music Principal (two [2] hours each).
MVW 5252r.	App Mus Sec, Oboe	MVK 5452r.	App Mus Maj, Harpsichord	MVO 6360r.	Modified credit, All Instruments (1).
MVW 5253r.	App Mus Sec, Clarinet	MVK 5453r.	App Mus Maj, Organ	MV(B, K, O, P, S, V, W) 6460r–6469r.	Applied Music Major (four [4] hours each).
MVW 5254r.	App Mus Sec, Bassoon	MVO 5450r.	Modified Credit, All Instruments (2).	MVB 6461r.	App Mus Maj, Trumpet
MVW 5255r.	App Mus Sec, Saxophone	MVP 5451r.	App Mus Maj, Percussion	MVB 6462r.	App Mus Maj, French Horn
MV(B, J, K, O, P, S, V, W) 5350r–5359r.	Applied Music Principal (two [2] hours each).	MVS 5451r.	App Mus Maj, Violin	MVB 6463r.	App Mus Maj, Trombone
MVB 5351r.	App Mus Prin, Trumpet	MVS 5452r.	App Mus Maj, Viola	MVB 6464r.	App Mus Maj, Euphonium
MVB 5352r.	App Mus Prin, French Horn	MVS 5453r.	App Mus Maj, Violoncello	MVB 6465r.	App Mus Maj, Tuba
MVB 5353r.	App Mus Prin, Trombone	MVS 5454r.	App Mus Maj, Double Bass	MVJ 6460r.	App Mus Maj, Piano, Jazz
MVB 5354r.	App Mus Prin, Baritone Horn	MVS 5455r.	App Mus Maj, Harp	MVJ 6461r.	App Mus Maj, Voice, Jazz
MVB 5355r.	App Mus Prin, Tuba	MVS 5456r.	App Mus Maj, Guitar	MVJ 6462r.	App Mus Maj, Violin, Jazz
MVJ 5350r.	App Mus Prin, Piano, Jazz	MVV 5451r.	App Mus Maj, Voice	MVJ 6463r.	App Mus Maj, Guitar, Jazz
MVJ 5351r.	App Mus Prin, Voice, Jazz	MVW 5451r.	App Mus Maj, Flute	MVJ 6464r.	App Mus Maj, Bass, Jazz
MVJ 5352r.	App Mus Prin, Violin, Jazz	MVW 5452r.	App Mus Maj, Oboe	MVJ 6465r.	App Mus Maj, Flute, Jazz
MVJ 5353r.	App Mus Prin, Guitar, Jazz	MVW 5453r.	App Mus Maj, Clarinet	MVJ 6466r.	App Mus Maj, Saxophone, Jazz
MVJ 5354r.	App Mus Prin, Bass, Jazz	MVW 5454r.	App Mus Maj, Bassoon	MVJ 6467r.	App Mus Maj, Trumpet, Jazz
MVJ 5355r.	App Mus Prin, Flute, Jazz	MVW 5455r.	App Mus Maj, Saxophone	MVJ 6468r.	App Mus Maj, Trombone, Jazz
MVJ 5356r.	App Mus Prin, Saxophone, Jazz	MVS 5505r.	Orchestral Repertoire for Violin (1). (S/U grade only.)	MVJ 6469r.	App Mus Maj, Percussion, Jazz
MVJ 5357r.	App Mus Prin, Trumpet, Jazz	MVS 5550r.	String Repertory (0–1).	MVK 6461r.	App Mus Maj, Piano
MVJ 5358r.	App Mus Prin, Trombone, Jazz	MVV 5552r.	Musical Theatre Repertoire (1).	MVK 6463r.	App Mus Maj, Organ
MVJ 5359r.	App Mus Prin, Percussion, Jazz	MVS 5556r.	Guitar Repertory (1).	MVO 6460r.	Modified Credit, All Instruments (2).
MVK 5351r.	App Mus Prin, Piano	MVK 5605.	Organ/Harpsichord Pedagogy (2).		
MVK 5352r.	App Mus Prin, Harpsichord	MVO 5650.	Pedagogy for Winds and Percussion (3).		
MVK 5353r.	App Mus Prin, Organ	MVK 5651.	Piano Pedagogy I (3).		
MVO 5350r.	Modified Credit, All Instruments (1).	MVV 5651.	Seminar in Vocal Pedagogy (2).		
MVP 5351r.	App Mus Prin, Percussion	MVK 5652.	Piano Pedagogy II (3).		
MVS 5351r.	App Mus Prin, Violin	MVK 5661.	Advanced Piano Pedagogy I (3).		
MVS 5352r.	App Mus Prin, Viola	MVK 5662.	Advanced Piano Pedagogy II (3).		
MVS 5353r.	App Mus Prin, Violoncello	MVK 5671.	Practicum in Piano Pedagogy (2).		
MVS 5354r.	App Mus Prin, Double Bass	MVK 5681r.	Applied Music Major: Piano Pedagogy (4).		
MVS 5355r.	App Mus Prin, Harp	MVW 5705r.	Introduction to the Baroque Flute (1).		
MVS 5356r.	App Mus Prin, Guitar	MVW 5706r.	Introduction to the Baroque Recorder (1).		
MVV 5351r.	App Mus Prin, Voice				

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
 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
 MV(S, V) 6469. Applied Music Major Certificate (4).
 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, S, V, W) 6985–6989. Doctoral Recital (one to four [1–4] hours each). (S/U grade only.)

MVP 6985–6988. Doctoral Recital (one to four [1–4] hours each). (S/U grade only.)

For listings relating to graduate course work for thesis, treatise, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

NEUROSCIENCE: see *Graduate Bulletin*

NURSING

SCHOOL OF NURSING

Professors: Flannery, Frank, Speake; *Associate Professors:* Cottrell, Dean, Faria, Grubbs, Harris, Karioth, Kohler, Lauterbach; *Assistant Professors:* Aronovitch, Lesser, Tucker, Whiteside; *Associate in Nursing:* Epley; *Assistants in Nursing:* Elliott, King, Mersdorf, Schall, Strouts, Workman; *Visiting Assistant in Nursing:* Buleczka

The School of Nursing offers a bachelor of science in nursing (BSN) for generic and registered nurse students. The undergraduate program is approved by the Florida Board of Nursing and accredited by the National League for Nursing. At the completion of the program the student will have met all requirements for the BSN. The generic graduate of the nursing program will have met the academic eligibility requirements for taking the state licensing examination. The mission of the School of Nursing is to develop professional leaders in nursing for practice in diverse settings.

The program is an upper-division 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. This theoretical base is used with the nursing process in the systematic development of care plans for providing nursing care to individuals and groups in a variety of health care settings.

The School of Nursing offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the "University Honors Program and Honor Societies" section of this *General Bulletin*.

For complete details of programs offered and admission requirements, plus a description of the school, its facilities, opportunities, and available financial assistance, refer to the "School of Nursing" chapter of this *General Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. BSC X085C or any human anatomy and physiology I or human anatomy;
2. BSC X086C or any human anatomy and physiology II or human physiology;
3. Four to six (4–6) semester hours of chemistry (CHM prefix), which must be comprehensive college general chemistry (such as CHM 1030 or CHM 1032) but not lower level principles courses (such as CHM 1025). Contact the department for exceptions;
4. DEP X004 or any human growth and development across life span;
5. HUN X201 (or any human nutrition) or NUR 1192;
6. MCB X010C or any microbiology with lab;
7. PSY X012 or any general psychology;
8. STA X014 or any statistics course;
9. SYG X000 or any introduction to sociology.

Definition of Prefixes

BSC — Biological Science
 NGR — Nursing: Graduate
 NUR — Nursing

Undergraduate Courses

Theory/Laboratory Courses Required

BSC 2085. Anatomy and Physiology I (3). 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 2086. Anatomy and Physiology II (3). Prerequisites: BSC 2085 or permission of instructor. 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.

NUR 3026. Nursing Competencies for Professional Practice (3). Prerequisites: Admission to nursing. Corequisites: NUR 3026L. This course provides the basis for professional nursing practice. Included are concepts of basic human physical needs, technical, computer, and therapeutic communication skills, documentation (based on medical terminology), group process, nursing process, and APA.

NUR 3026L. Nursing Competencies for Professional Practice Lab (2). Prerequisites: Admission to nursing. Corequisites: NUR 3026. This course supports concepts presented in NUR 3026, Nursing Competencies for Professional Practice. The application of competencies and skills occurs in laboratory and various clinical settings.

NUR 3064. Nursing Assessment of the Well Family: A Lifespan Approach (2). Prerequisites: Admission to nursing. Corequisites: NUR 3064L. This course introduces the beginning nursing student to the parameters, procedures and skills required to perform and document a holistic assessment of clients in all age groups. Included are communication and interview techniques in compiling a health history, technical skills in performing a physical exam, and critical thinking skills in doing a health risk appraisal and formulating nursing diagnoses appropriate to identified problems. Clients' cultural differences, developmental stage, family structure, economic situation and health behaviors are considered when evaluating health status.

NUR 3064L. Nursing Assessment of the Well Family: A Lifespan Approach Lab (2). Prerequisites: Admission to nursing. Corequisites: NUR 3064. The focus of this course is on the application of knowledge and skills utilized in assessing a client's health status. The laboratory and various clinical sites are utilized in assessing diverse client populations across the life span. Critical thinking, along with interactive and technical skills, are used in gathering data for a health history, performing a physical exam, identifying health risks and problems, documenting findings and formulating a nursing diagnosis. A holistic approach is utilized in assessing the health of primarily healthy clients and in developing a health database.

NUR 3146. Pharmacology for Professional Nursing (1). Prerequisite: Admission to nursing program. Using the science of pharmacology and pharmacological principles underlying therapeutic interventions, this course focuses on the introduction to nursing care regarding pharmacological theory, major classifications and common characteristics of drugs.

NUR 3167. The Research Process for Professional Practice (2). Prerequisites: Term I courses. This introductory course will assist students in conceptualizing both the basic

research process and the importance of research to nursing, and will enable students to understand and use published healthcare research.

NUR 3226. Nursing the Adult Family I (3). Prerequisites: Term I courses. Corequisite: NUR 3226L. This is the first of three courses focusing on the adult. Emphasis is on general body responses and alterations in disease, pathophysiology, and holistic nursing management of the continuum of care for patients and their families in acute care settings. Critical thinking and problem solving skills are utilized to plan interventions and evaluate outcomes appropriate to health care needs for adults and their families based on the state of the disease course and their special needs. Concepts and alterations in physiologic stress and adaptation, fluid and electrolyte balance, acid/base balance, immune/inflammation response, and cellular proliferation serve as a foundation for all levels of care. Principles of rehabilitation are presented for application in all clinical courses. Diabetes, complications of surgery, and alterations in digestive and orthopedic systems are presented.

NUR 3226L. Nursing the Adult Family I Laboratory (2). Prerequisites: Term I courses. Corequisite: NUR 3226. Focus of this laboratory course is the application of technological competencies, concepts and principles, and the nursing process while providing interventions to adults and their families in the acute care and appropriate community care settings. Effectiveness of the interventions and expected outcomes are evaluated.

NUR 3287. Nursing the Aging Family (2). Prerequisite: Admission to nursing major. Utilizing a holistic perspective, this course explores the older adult family, the aging process, client responses, adaptive behaviors and nursing needs. The focus is on promoting client independence and maximizing quality of life among the age continuum through end-of-life care. Nursing and aging theories are utilized in the application of the nursing process.

NUR 3535. Mental Health Nursing (3). Prerequisites: Term I courses. Corequisite: NUR 3535L. This course focuses on individuals and small groups experiencing acute and chronic behavioral problems. Critical thinking is used to apply psychiatric and nursing theories to the care of these clients and families in various healthcare settings. Content includes the effect of mind/body disturbances on biopsychosocial functioning, mental status, relationships, and families. Nursing care of individuals and families with maladaptive behavioral, cognitive, affective and physical assessments as well as somatic, behavioral, and environmental interventions also are explored.

NUR 3535L. Mental Health Nursing Laboratory (3). Prerequisites: Term I courses. Corequisite: NUR 3535. This laboratory applies psychiatric and nursing theories to individuals and small groups experiencing acute and chronic behavioral problems in various healthcare settings.

NUR 3615. Introduction to Family and Community Nursing (2). Prerequisite: Admission to nursing program. This course focuses on core systems of individual, family, and community nursing which provide the framework of the BSN program. Concepts discussed include: Pender's health belief model; cultural, social, and epidemiological factors relative to health and illness; concepts of acuity/chronicity, and crisis; systems theory; rehabilitation concepts; family and group theory, communication, and dynamics.

NUR 3805. Nursing: Role and Scope (3). Prerequisites or Corequisites: NUR 4080, 4080L. This course is designed for the returning registered nurse student. Current and emerging concerns of professional nursing are addressed within the context of nursing history, nursing practice, impact of global trends, and the influence of political and socioeconomic policies on nursing and health care. The roles of the baccalaureate nurse are examined in relation to individual, family, and community outcomes with emphasis on client advocacy, teaching, autonomy, accountability, change agent, research, critical thinking, and leadership. The legal and ethical framework for professional nursing and cultural diversity also are explored. Selected nursing practice models and health belief models are considered for applicability to nursing practice.

NUR 3825. Values, Roles and Issues in Professional Nursing (2). Prerequisite: Admission to the nursing program. This course focuses on roles, ethics, values, and the image of the nursing profession; introduction to nursing research, nursing theory, nursing model of practice, teaching/learning, and the health care system; diversity, caring and synchrony across the lifespan; and emphasis on nursing values such as altruism, autonomy, dignity, integrity, and social justice.

NUR 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

NUR 4069C. Advanced Health Assessment (3). Prerequisites: Admission to RN-MSN program and permission of instructor. Designed to develop students knowledge of skills for advanced health assessment, including health history and physical examination.

NUR 4080. Nursing Concepts I (4). Prerequisite: NUR 3805. Corequisite: NUR 4080L. This course is designed for the returning registered nurse student. It emphasizes concepts related to health promotion, chronic illness, family, principles of group dynamics, domestic violence, addiction, grief and loss, and psychosocial needs. The planning for utilization of these concepts when caring for individuals, families, and communities also is highlighted.

NUR 4080L. Nursing Practicum I (1). (S/U grade only.) Prerequisite: NUR 3805. Corequisite NUR 4080. This clinical laboratory course provides the returning registered nurse student with the opportunity to apply professional nursing strategies while assisting clients and families in maintaining and/or regaining an optimal level of wellness. Emphasis is given to the professional nursing roles of care provider/coordinator, teacher, collaborator, and problem solver in clients/family health care across the life span.

NUR 4107. Nursing and the Healthcare System (2). Prerequisites: Term I and II courses. This course is an introduction to current healthcare delivery systems on local regional, national, and global levels. Concepts of managed health care, case management, reimbursement, legal/ethical risk management, quality outcomes, diversity and complexity of population at risk, and conservation of resources are emphasized.

NUR 4255. Nursing the Adult Family II (3). Prerequisites: Term I and II courses. Corequisite: NUR 4255L. This is the second of three courses focusing on the adult. Emphasis is on alterations in disease, both acute and chronic, pathophysiology, and nursing management of the continuum of care for patients and their families in acute care and appropriate community care settings. Critical thinking and problem solving skills are utilized to plan interventions and evaluate outcomes appropriate to health care needs for adults and their families based on the stage of the disease course and their special needs. Alterations in cardiac, vascular, hematologic, respiratory, sensory/neurologic and endocrine (other than diabetes) systems are presented.

NUR 4255L. Nursing the Adult Family II Laboratory (2). Prerequisites: Term I and II courses. Corequisite: NUR 4255. The focus of this laboratory course is the application of technological competencies, concepts, principles, and the nursing process while providing interventions to adults and their families in the acute care and appropriate care settings. Effectiveness of the interventions and expected outcomes are evaluated.

NUR 4465. Nursing Care of the Childbearing Childrearing Family (4). Prerequisites: Term I and II courses. Corequisite: NUR 4465L. This course focuses on individuals and their families during the childbearing and childrearing phases of family development. Physiologic, psychologic, sociocultural, and pathophysiologic processes associated with bearing 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 healthy status of family members are emphasized.

NUR 4465L. Nursing Care of the Childbearing/Childrearing Family Laboratory (3). Prerequisites: Term I and II courses. Corequisite: NUR 4465. This laboratory course expands the application of the nursing process and nursing roles to the specialized care required by childbearing and childrearing families in a variety of settings.

NUR 4535. Mental Health Nursing (4). Prerequisites: NUR 3147, 3215/3215L, 3457/3457L. The study of theoretical foundations of mental health nursing practice with distressed clients and their families with emphasis on the application of the nursing process to the care of individuals and groups on the health/illness continuum. Legal issues, treatment modalities, and specific emotional disruptions are considered in the context of mental health nursing theory and practice.

NUR 4535L. Mental Health Nursing Laboratory (2). Prerequisites: NUR 3147, 3215/3215L, 3457/3457L. Prerequisite or Corequisite: NUR 4535. Mental health nursing practice with a variety of clients experiencing emotional disruptions in health, emphasizing implementation of nursing care incorporating multiple treatment modalities and theoretical considerations. Seminars with selected clinical issues and activities are provided to supplement clinical laboratory experiences.

NUR 4619. Community Nursing: A Synthesis of Care (1). Prerequisites: Term I, II and III courses. Corequisite: NUR 4619L. This course requires the synthesis of competencies, caring, and commitment established in previous and current courses. This synthesis consolidates two fundamental aspects of nursing practice as established by the American Association of Colleges of Nurses: "care of the sick in and across all environments and health promotion." Application of concepts such as acuity/chronicity, utilization of resources, quality of outcomes for individuals, families, and communities is required. Concept mapping and case studies are employed.

NUR 4619L. Community Nursing: A Synthesis of Care Laboratory (1). Prerequisites: Term I, II and III courses. Corequisite: NUR 4619. Home visits to multi-generational families utilizing concepts of care management, case presentations and community assessment are employed in this laboratory course.

NUR 4637. Public Health Nursing (2). Prerequisites: Term I, II, III and IV courses. Corequisite: NUR 4637L. The course focuses on complexity and diversity of groups or aggregates within communities and their corresponding health care needs. The third fundamental aspect of nursing practice established by the American Association of Colleges of Nurses, "population based health care" is addressed. Topics include the philosophy and concepts of public health nursing and comparison to community health and the role of the public health nurse as a leader, change agent, case finder, and case manager in settings such as schools, industry, correctional institutions, group homes, sheltered workshops and clinical settings. The family structure and its impact on healthcare, environmental safety, effects of poverty, epidemiology, communicable disease, resources (Centers for Disease Control and research), impact of violence in community settings, disaster (both natural and man-made) and global and environmental health also are examined.

NUR 4637L. Public Health Nursing Laboratory (2). Prerequisites: Term I, II, III, and IV courses. Corequisite: NUR 4637. This course utilizes the findings from the community assessment performed in NUR 4619. Implementation of an appropriate project is performed. Clinical experiences are conducted with the guidance of a preceptor and may occur in a variety of settings.

NUR 4767. Nursing the Adult Family III (3). Prerequisites: Term I, II and III courses. Corequisite: NUR 4767L. This is the last of three courses focusing on the adult. Emphasis is on complex multi-system problems, pathophysiology, and holistic nursing management of the continuum of care for patients and their families in acute care and appropriate community care settings. Critical thinking and problem-solving skills are utilized to plan interventions and to evaluate outcomes appropriate to health care needs for adults and their families based on the stage of the disease course and their special needs. The complexity of nursing management related to burns, brain, and spinal cord injuries, DIC, multi-system trauma, multi-system failure and organ transplantation is presented. Principles and issues related to end-of-life, hospice, and critical care are presented for application in practice.

NUR 4767L. Nursing the Adult Family III Laboratory (2). Prerequisites: Term I, II and III courses. Corequisite: NUR 4767. The focus of this laboratory course is the application of technological competencies, concepts and principles, and the nursing process while intervening with adults and their families in the acute care and appropriate community care settings. Effectiveness of the interventions and expected outcomes are evaluated. Care of patient with complex problems is emphasized.

NUR 4835. Professional Nursing Leadership and Management (2). Prerequisites: Term I, II, III, and IV courses. Corequisite: NUR 4835L. This course focuses on concepts, principles and theories of leadership, management, role development and administration. 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, managing quality and performance, and teaching are emphasized.

NUR 4835L. Professional Nursing Leadership and Management Laboratory (2). Prerequisites: Term I, II, III, and IV courses. Corequisite: NUR 4835. Clinical experiences in a variety of settings will be examined.

NUR 4945. Professional Nursing Internship (4). (S/U Grade only.) Prerequisites: Term I, II, III, and IV courses. 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, and role development is expected. The student col-

laborates with the faculty and the preceptor in choosing the care setting, and plans and organizes the learning experience to facilitate a successful transition into the profession.

Electives

NUR 3040. Multicultural Factors and Health (3). 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 which conflict with ethnic or cultural communication related to standards and value systems.

NUR 3076. Communication in Health Care (3). Prerequisite: ENG 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 3090. Medical Terminology (3). This course is designed to help students understand the origins of medical terms. The course will equip future members of the health care industry with a medical vocabulary. Suffixes and prefixes are reviewed. The body is approached systematically to discuss its anatomy and physiology and its basic pathology. Also discussed are those terms pertaining to relevant assessment procedures.

NUR 3135. Men's Health (3). Prerequisite: other college level biology or approval of the instructor. This survey course in the health and wellness minor focuses on concerns of men in maintaining their health. Over the lifespan, lifestyle issues such as recreation, employment, violence and sexuality are addressed. Diseases that are of concern to males are emphasized, including prostate and colon cancer, cardio-vascular disease, sexual problems and sports injuries.

NUR 3195. The Individual, Death, and the Family (2). Prerequisite: REL 3191 or permission of the instructor. Explores concepts of the death and dying process as related to the role of health care givers. Direct participation with dying clients and families may be provided.

NUR 3199. Therapeutic Massage (3). Course introduces the student to the principles and techniques of therapeutic massage and develops the practical skills associated with the administration of therapeutic massage. The course will include various techniques: the pre-massage (including health history), application of therapeutic treatments, client charting (including S.O.A.P. notes), and adjustment based upon client feedback. Communication skills, ethical standards, and establishing trust in a safe environment will also be addressed. The student will be introduced to basic anatomy, indications, contraindications, and current research related to therapeutic massage.

NUR 3396. Child Life in Health Care Settings (3). Prerequisites: FAD 3220; NUR 3090. This course is designed primarily for students interested in care of children with a focus on the child with health interferences in development due to varying degrees of illness. Addresses individual and family, community, organizational and institutional concerns and the role of the child life specialist on the health care team. This course is appropriate for students in child life, social work, special education and any field where child development is a concern.

NUR 3495. Women's Health Issues: Concerns Through the Life Cycle (3). Prerequisite: BSC 1005 or BSC 2011 or permission of the instructor. Focus will be 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.

NUR 3617. Health and Health Alterations in the Family and Community (3). A survey course designed to help the student look at the health care professional as an agent for health promotion. The health promotion agent looks at health and health alterations in the individual, family, and community. Students will explore the concepts of health promotion, health alterations and disease prevention, including the influence of health care agents, political and economic factors on health promotion, disease prevention and future trends.

NUR 3935. 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 4642. Substance Abuse and the Effects on Health, Family, and Profession (3). Broad-based approach to substance abuse and the effects on health, family, and the profession; identifying groups at risk, prevention activities, and help approaches.

NUR 4826. Contemporary Clinical Ethics in Health Care (3). Provides students with the opportunity to both explore the ethical dimensions of health care practices and to develop skills in ethical decision making. Students will practice the clinical application of ethical theory in relation to current health care issues and concerns.

NUR 4905r. Directed Individual Study (1-4). May be repeated to a maximum of six (6) semester hours.

NUR 4930r. Special Topics (1-3). Topics of interest relating to nursing and other health-related issues. May be repeated to a maximum of nine (9) semester hours.

NUR 4935. Legislative Influences on Health Care and Nursing Practice (3). Current health care issues and their impact on consumers and providers are analyzed.

NUR 4975r. Honors Thesis (1-6). Honors thesis may be repeated for a maximum of nine (9) semester hours.

Graduate Courses

NGR 5001C. Advanced Health Assessment (3).

NGR 5002C. Advanced Health Assessment for Nurse Practitioners (1).

NGR 5051C. Advanced Wound Management (2).

NGR 5095. Holistic Nursing (3).

NGR 5121. Theories in Nursing (2).

NGR 5122. Role Development Theories (2).

NGR 5130. Contemporary Clinical Ethics in Health Care (3).

NGR 5140. Clinical Pathophysiology for Advanced Nursing Practice I (3).

NGR 5141. Clinical Pathophysiology for Advanced Nursing Practice II (3).

NGR 5152. Dynamics of Health (2).

NGR 5190. Nursing Diagnostics and Therapeutics I (2).

NGR 5191. Nursing Diagnostics and Therapeutics II (2).

NGR 5255. Dynamics of Aging (3).

NGR 5570C. Community Mental Health Nursing I (3).

NGR 5571L. Community Mental Health Nursing II (3).

NGR 5610. Conceptual Bases of Family Nursing (2).

NGR 5615L. Family Nursing I: Nursing Care of Families Experiencing Crisis Laboratory (1).

NGR 5616L. Family Nursing II Laboratory: Nursing Care of Families Experiencing Chronic and Long-term Health Problems (1).

NGR 5620C. Conceptual Bases in Community Nursing (4).

NGR 5625C. Community Health Nursing: Advanced Practice (4).

NGR 5710. Theories of Teaching of Nursing (3).

NGR 5710L. Theories of Teaching of Nursing Laboratory (1).

NGR 5712. Teaching Methods in Nursing Education (2).

NGR 5712L. Teaching Methods in Nursing Education Laboratory (3).

NGR 5715. Capstone: Application of Technology for the Nurse Educator (3).

NGR 5720C. Administrative Methods in Nursing (3).

NGR 5721. Nursing Administration Theory (3).

NGR 5726. Fiscal Responsibility and Outcomes Management (3).

NGR 5741. Nurse Practitioner I (3).

NGR 5741L. Nurse Practitioner/Clinical Nurse Specialist Laboratory I: Clinical Management of Young Families (4).

NGR 5742. Nurse Practitioner II (3).

NGR 5742L. Nurse Practitioner/Clinical Nurse Specialist Laboratory II: Clinical Management of Mature Adults and Aging Families (4).

NGR 5743L. Clinical Elective for Advanced Practice Nurses (1-6).

NGR 5747. Dynamics of Nursing Systems and Health Care (3).

NGR 5752. Clinical Nurse Specialist/Case Care Manager I (3).

NGR 5752L. Clinical Nurse Specialist/Case Care Manager I Laboratory (3).

NGR 5753. Clinical Nurse Specialist/Case Care Manager II (3).

NGR 5753L. Clinical Nurse Specialist/Case Care Manager II Laboratory (4).

NGR 5754. Fundamentals of Teaching for Master's Students (1).

NGR 5755. Validation of Advanced Nursing Practice: Outcomes Validation (3).

NGR 5758L. Nurse Practitioner Practicum (2-5).

NGR 5800. Research in Nursing (3).

NGR 5843. Application of Descriptive and Inferential Statistics for the Health Profession (4).

NGR 5870. Computers in Nursing Research and Practice (3).

NGR 5880. Ethical and Legal Perspectives of Advanced Practice Nursing (2).

NGR 5905r. Directed Independent Study (1-3).

NGR 5910r. Supervised Research (1-3).

NGR 5911r. Research Project (3-6). (S/U grade only).

NGR 5930r. Special Topics in Nursing (1-3).

NGR 5932. Tutorial for Advanced Practice Nursing (1-3).

NGR 5933. Management/Care of Client with HIV (2).

NGR 5938. Research Seminar (2).

NGR 5941Lr. Supervised Teaching (1-5).

NGR 5943C. Nursing Administration Practicum (3).

NGR 5945L. CNS/Case Care Manager Practicum (2-5).

NGR 5971r. Thesis (1-4).

NGR 6947L. Teaching of Nursing Practicum (5).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of NUTRITION, FOOD AND EXERCISE SCIENCES

COLLEGE OF HUMAN SCIENCES

Chair: Bob Moffatt; *Professors:* Haymes, Moffatt, Overton, Sathe, Toole; *Associate Professors:* Abood, Anderson, Bertram, Cook, Dorsey, Levenson, Rankins; *Assistant Professors:* Mistry, Pantan; *Visiting Professor:* Hsieh; *Assistant in Athletic Training/Sports Medicine:* Sehgal; *Adjunct Professors:* Dupont, Stowers; *Coordinator of Food Service Administration:* Truesdell; *Professors Emeriti:* Erdman, Harris, Kassouny, Watts; *Affiliate Faculty:* Gibson, Hilker, Kelly, Lunt, Nichter, Oravetz, Perez, Wall, Watson; *Courtesy Faculty:* Kehayias

The Department of Nutrition, Food and Exercise Sciences offers two Bachelor of Science degrees: Food and Nutrition and Human Sciences. There are two majors under the Food and Nutrition degree: 1) Dietetics; 2) Food and Nutrition Science; and two majors under the Human Science degree: Exercise Science; 2) Athletic Training/Sports Medicine.

The purpose of the dietetics major 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 Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association (ADA), 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312/899-5400. Completion of the DPD program, which entails satisfying the graduation requirements for the dietetics major plus the food service management laboratory (FSS 4315L, Institutional Organization and Administrative Laboratory) as an elective, meets the academic requirements for membership in the ADA. Graduates of the DPD program are eligible to apply to graduate school and/or post-baccalaureate, accredited dietetic internships. The dietetic internship, which provides the competencies for the supervised practice component of dietetics education, is in turn required for eligibility to take the national Registration Examination for Dietitians. Careers are available for dietitians in clinical, research, community, food service, management, and educational settings and consulting.

The food and nutrition science major has a strong science base that prepares students for job opportunities in the food industry, government agencies, careers in the medical field as well as graduate study in the field.

The exercise science major prepares professionals with expertise in fitness, exercise physiology, and pre-physical therapy. Students in the fitness option are prepared for graduate study as well as positions as personal trainers and health fitness instructors with both hospital-based wellness programs and corporate fitness programs. The exercise physiology option prepares students for graduate study in exercise physiology and for medical school. Students in the pre-physical

therapy option complete course work required for entrance to physical therapy or occupational therapy programs.

The athletic training/sports medicine major provides the course work required by the National Athletic Trainers' Association Board of Certification (NATABOC), and the Commission on Accreditation for Allied Health Education Programs (CAAHEP). Athletic training/sports medicine is offered to students interested in working with injury prevention, recognition and immediate care, rehabilitation, health care management and professional development in a sports medicine environment. Athletic training/sports medicine students have an opportunity to gain clinical experience in a variety of sports settings, both on and off campus. Access to clinical opportunities are limited. These opportunities require the following:

- 1) a minimum GPA of 2.5 or better;
- 2) successful completion of PET 1638 and admittance into PET 1941; and,
- 3) student must meet all technical standards for admission.

See an academic advisor for details. To qualify to take the NATABOC certification examination, students must have a minimum of 1500 hours and complete all didactic, clinical, and field experiences.

For each undergraduate major, students may have the opportunity to apply knowledge and skills through supervised practica. In the practicum courses, students may be assigned to work with specific medical, food service or community agencies or an adult fitness class.

Academic Performance

1. Students who earn more than five unsatisfactory grades (U, F, D-, D, D+) in any course required for the majors in dietetics, food and nutrition science, exercise science or athletic training/sports medicine (including chemistry, biological sciences, statistics, or required electives) at The Florida State University or elsewhere, whether or not repeated, will not be permitted to graduate with a degree in food and nutrition or human sciences.
2. In order to graduate with a degree in food and nutrition or human sciences students must have a minimum GPA of 2.5.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for the dietetics major:

Dietetics

1. BSC X010;
2. BSC X085/X086 or BSC X085C/X086C or BSC X093C/X094C, or PET 3201C or HSC 3549 or PCB 3702;
3. CGS X060 or CGS X061;
4. CHM X200C or CHM X210/X210L and CHM X211/X211L;
5. CHM X045/X045L and CHM X046/X046L or CHM X030C or CHM X025C (**Note: CHM X030C and CHM X025C, each by itself, can substitute for CHM X045/X045L and CHM X046/X046L**);
6. ECO X013 or ECO X023 or ECO X000;
7. HUN X201 or NUR 1192;
8. MAC 1105 or MAC X142;
9. MCB 2004/2004L or MCB X020C or MCB X020/X020L or MCB X013C;
10. PSY X012 or PSY X020 or PSY X113.

A grade of "C-" or better is required in all courses to be counted toward the degree.

Core Program

1. **Liberal Studies.** Required courses which may be taken in fulfillment of liberal studies include: 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). For oral communication: HEE 4054 is certified.
3. **College of Human Sciences Core.** The college core is to be met by taking the following courses: HOE 3050, FAD 2230 and HEE 4054 or FAD 4601.
4. **Core Courses required for all majors/options.** CGS 2060 (or equivalent such as BSC 2010L if taken at FSU); CHM 1045/1045L and 1046/1046L or CHM 1030; CHM 2200C or 2210; HUN 1201, 3224; MAC 1105 or better; BSC 2085/2086 or PET 3322C; STA 2122 or 2023; three (3) semester hours of electives in the department.

Bachelor of Science

The Department of Nutrition, Food and Exercise Sciences offers two bachelor of science degrees—Food and Nutrition and Human Sciences. 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 area of emphasis chosen. Additional courses may be required to complete the one hundred twenty (120) semester hours required for the degrees. A minimum grade of “C–” or better must be earned for all required courses. A course may not be retaken more than twice (for a total of three times).

The following are the specific requirements for each major (or area of emphasis) within the degree of food and nutrition (dietetics, and food and nutrition sciences) and human sciences (exercise science and athletic training/sports medicine options).

Dietetics (General Option). Lower division: see liberal studies requirements, college and department core and common prerequisites. Upper division: BCH 3023C; DIE 3003, 4244, 4244L, 4315; FAD 4601; FOS 3026, 3026L, 4114C; FSS 4135, 4315; HUN 3224, 3226; three (3) semester hours of department electives. Students fulfilling DPD requirements must take FSS 4315L.

Dietetics (Sports Nutrition Option). Lower division: see liberal studies, college and department core, dietetics common prerequisites. Upper division: BCH 3023C; DIE 3003, 4244, 4244L, 4315; FAD 4601; FOS 3026, 3026L, 4114C; FSS 4135, 4315; HSC 2400; HUN 3224, 3226; PET 3361, 3380C. Students fulfilling DPD requirements must take FSS 4315L.

Dietetics (Gerontology Option). Lower division: see liberal studies, college and department core, dietetics common prerequisites; use ECO 2013 for economics. Upper division: BCH 3023C; DIE 3003, 4244, 4244L, 4315; FAD 4601; FOS 3026, 3026L, 4114C; FSS 4135, 4315; HUN 3224, 3226; PET 4076; ISS 4944r; plus six (6) semester hours from courses approved for the undergraduate Certificate in Aging Studies offered by the Pepper Institute on Aging. Students fulfilling DPD requirements must take FSS 4315L.

Food and Nutrition Science. Lower division: see liberal studies, college core plus: BSC 2010, 2010L; ECO 2013 or equivalent; CHM 1045, 1045L, 1046, 1046L, 2210, 2211, 2211L; HUN 1201; MAC 1114, 1140, 2311; MCB 2004, 2004L; PHY 2053C; PSY 2012; STA 2122 or 2023. Upper division: BCH 3023C; CHM 3120C; FOS 3026, 3026L, 4114C; HEE 4054; HUN 3224, 3226; PET 3322C or PCB 3063 or 3134; three (3) semester hours of food and nutrition electives.

Exercise Science (Exercise Physiology Option). Lower division: see liberal studies and college core plus: BSC 2010, 2010L, 2011, 2011L; CHM 1045, 1045L, 1046, 1046L, 2210, 2211; HUN 1201; MAC 1114, 1140; PHY 2053C, 2054C; PSY 2012; STA 2122. Upper division: BCH 3023C; HEE 4054, or FAD 4601; one (1) semes-

ter hour of HUN 3224, 3226, 4905r; PET 3102, 3322C, 3323C, 3380C, 4021, 4050C, 4312C, 4551; three (3) semester hours of department electives.

Exercise Science (Nutrition and Fitness Option). Lower division: see liberal studies and college core plus: CGS 2060; CHM 1030, 2200C, HSC 2400; HUN 1201; MAC 1105 or better; PSY 2012; STA 2122 or 2023. Upper division: FOS 3395; HEE 4054; HUN 3224, 3226; HSC 4711; PET 3102, 3322C, 3323C, 3368, 3380C, 3621, 4050C, 4551; three (3) semester hours of department electives.

Exercise Science (Pre-Physical Therapy Option). Lower division: see liberal studies and college core plus: BSC 2010; 2010L, 2011, 2011L; CHM 1045, 1045L, 1046, 1046L, 2200C or 2210; HSC 2400; HUN 1201; MAC 1114, 1140; PHY 2053C, 2054C; PSY 2012; STA 2122. Upper division: FAD 4601; HUN 3224, 3226; HSC 4711; PET 3102, 3322C, 3323C, 3380C, 3621, 4050C, 4076, 4312C, 4551; three (3) semester hours of department electives.

Athletic Training/Sports Medicine. Lower division: see liberal studies and college core plus: BSC 2010, 2010L; CHM 1030, 2200C; HSC 2400; HUN 1201; MAC 1105; PET 1638, 1941, 2942; PSY 2012; STA 2122. Upper division: FAD 4601; HSC 4711; HUN 3224; PET 3102, 3322C, 3323C, 3368, 3380C, 3621, 3627C, 3633C, 3634C, 3660, 3943, 4312C, 4551, 4623, 4625, 4632C, 4944, 4946, 4947. Athletic training/sports medicine students must complete all didactic, clinical, and field experiences. See an academic advisor for details.

All junior college/transfer students must complete the same didactic, clinical, and field experiences as resident students. Completion of clinical courses requires a minimum of six (6) semesters. Due to Commission on Accreditation of Allied Health Education Programs (CAAHEP) accreditation standards, all athletic training/sports medicine core courses required for the major must be taken at The Florida State University.

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 (6) semester hours, and present an honors seminar. For requirements and other information, see “University Honors Program and Honor Societies” chapter of this *General Bulletin* and your advisor.

Requirements for a Minor in Food and Nutrition or in Nutrition and Fitness

A minimum of twelve (12) semester hours are required for a minor. Students should be aware that many courses have additional prerequisites.

A minor in nutrition and food science must include HUN 1201; FOS 3395 or FOS 3026; plus any six (6) hours from PET 3361, FOS 4114C or any courses with prefixes HUN or DIE.

A minor in exercise science must include HUN 1201; PET 3322C, 3368, and 3380C, and any other upper-level PET course in the department.

Master’s and Doctoral Degrees

The Department of Nutrition, Food and Exercise Sciences offers work leading to the master of science (MS) in nutrition and food science, the master of science (MS) in movement science, the doctor of philosophy (PhD) in human sciences, and the doctor of philosophy (PhD) in movement science. Consult the *Graduate Bulletin* for details.

Definition of Prefixes

DIE	—	Dietetics
FOS	—	Food Science
FSS	—	Food Service System
HSC	—	Health Education and Safety
HUN	—	Human Nutrition
PET	—	Physical Education Theory

Undergraduate Courses

Note: these courses are open to **all** majors. Please note prerequisites.

DIE 3003. Introduction to Dietetics (1). (S/U grade only.) An introduction to dietetics, the professional opportunities for registered dietitians, and the role of the American Dietetic Association in dietetics education and practice.

FOS 1003. Food Science and Technology (3). Introduces basic food science vocabulary, processing techniques, principles and quality control parameters, as well as professional opportunities. An elective course for non-majors.

FOS 3395. Food and the Consumer (3). Prerequisites: CHM 1030; HUN 1201. Food composition, nutritional quality, and safety. Influence of food processing on food quality and safety. Consumer aspects of food including food selection, food management, and safety.

HSC 2400. First Aid (2). Successful completion allows students to earn American Red Cross certification in community first aid and safety. This includes adult CPR, child CPR, and first aid. In addition, OSHA recommendations, blood borne pathogen precautions and injuries will be discussed.

HUN 1201. The Science of Nutrition (3). Elements of nutrition and factors influencing the ability of individuals to maintain good nutrition status.

HUN 2125. Food and Society (3). Impact of society on human food ways, role of food and nutrition in national development and global politics. For nonmajors.

HUN 3412. Life Cycle Nutrition (3). Prerequisite: HUN 1201. Nutrition during pregnancy, lactation, and growth. Effects of nutrition on mother and child. Interrelationships of diet, nutrition, emotional development, behavior, stress and aging. Open to non majors.

PET 1638. Introduction to Athletic Training/Sports Medicine (1). (S/U grade only.) Prerequisite: 2.5 overall GPA. This course provides an introduction to clinical athletic training/sports medicine. Students are introduced and evaluated on basic skills and theories related to clinical and field practices. Course content is based on competencies and proficiencies set forth by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the National Athletic Trainers’ Association (NATA).

PET 1941. Athletic Training/Sports Medicine Clinical I (1). (S/U grade only.) Prerequisites: PET 1638; formal admission into the major. This course is an introduction and evaluation of athletic training/sports medicine skills related to the following: components of a pre-participation physical; wound care; crutch fitting; components of a medical history; nutritional food pyramid; fluid replacement protocols; athletic taping and wrapping; and appropriate therapeutic modality use in the sports medicine setting. Formal admission to the athletic training/sports medicine education program is required. Students must meet all program and technical standards required by the Commission on Accreditation of Allied Health Education Programs (CAAHEP) and the National Athletic Trainers' Association (NATA).

PET 2084. Personal Fitness and Wellness (3). Integrates aspects of nutrition, diet, fitness and health/wellness for personal well being. This course cannot be used as a department elective.

PET 2942. Athletic Training/Sports Medicine Clinical II (1). (S/U grade only.) Prerequisite: PET 1941. This course introduces and evaluates athletic training/sports medicine skills related to the following: girth limb measurements; body composition assessment; environmental measurements; protective pad and equipment fitting; emergency triage protocols; professional rescuer skill review; crotherapy; thermotherapy; acoustic therapy; electrotherapy; manual therapy; athletic meal design; and basic health care administration.

PET 3102. Introduction to Exercise Sciences (1). (S/U grade only.) An introduction to fields of study and careers in areas of exercise physiology, motor behavior, athletic training, health and fitness, 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 3322C. Functional Anatomy and Physiology I (4). The study of the functional anatomy and physiology of the skeletal, muscular, cardiovascular, respiratory, digestive, urinary and endocrine systems, and part of the nervous system. This course serves as the first part of a two-semester sequence.

PET 3323C. Functional Anatomy and Physiology II (4). Prerequisite: PET 3301C. Continuation of a two semester sequence of functional anatomy and physiology which includes the integumentary, nervous, lymphatic, immune and reproductive systems.

Advanced Undergraduate Courses

DIE 4225C. Diet Assessment (2). Prerequisite: Senior status. This elective for dietetics majors focuses on diet assessment in the computer lab using commercially available software. Emphases include the strengths and weaknesses of diet surveys, methods of recording diet intake, food composition data and the standards used to judge adequacy.

DIE 4244. Nutrition in Disease (3). Prerequisites: HUN 3224 or BCH 3023, PET 3301C or BSC 3086. Corequisite: HUN 3225. Metabolism in disease and the adaptation of diet in the treatment or prevention of disease.

DIE 4244L. Nutrition in Disease Laboratory (1). Prerequisite: DIE 3003. Corequisite: DIE 4244. Application of the principles and concepts of nutrition therapy to meet nutrient, medical, social, and psychological needs of patients.

DIE 4315. Community Nutrition (3). Prerequisites: HUN 1201; DIE 3003. The planning, implementation, and evaluation of nutrition programs in the community; public nutrition policy formulation.

FOS 3026. Foods (3). Prerequisites: HUN 1201; CHM 1030. Introduction to the physicochemical 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). Prerequisite or Corequisite: FOS 3022. Introduction to the physicochemical 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, 3026L. Chemistry of foods and their behavior during processing. Assessment of food quality.

FOS 4914r. Tutorial in Food Science (1). (S/U grade only.) Small group discussions or project work. Topics selected in contemporary issues or current research. Maximum enrollment of ten (10) students per tutorial. May be repeated when topics change to a maximum of four (4) semester hours.

FSS 4135. Institutional Food Economics (3). Prerequisites: DIE 3003; ECO 2000 or 2013; FOS 3026L. Cost analysis, cost containment, organizational structure, food laws, and food and beverage procurement in health care settings.

FSS 4315. Institutional Organization and Administration (3). Prerequisites: DIE 3003; FOS 3026. Managerial concepts and administration concerns involved with institutional food production.

FSS 4315L. Institutional Organization and Administration Laboratory (3). Prerequisites: FSS 4315, FOS 3026L and permission of instructor. Practical laboratory experience in the application of management concepts to institutional food administration.

HSC 4711. Wellness/Health Risk Reduction (3). 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.

HSC 4999r. Tutorial in Health Promotion (1). (S/U grade only.) Small group discussions or project work. Topics selected in contemporary issues or current research. Maximum enrollment of ten (10) students per tutorial. May be repeated when topics change to a maximum of four (4) semester hours.

HUN 3224. Intermediary Metabolism of Nutrients I (3). Prerequisites: HUN 1201; CHM 2200C. Part of a two-semester sequence emphasizing the physicochemical 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, BCH 3023C or HUN 3224, PET 3301 or BSC 3086. Part of a two-semester sequence. Emphasizes the physicochemical 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. Topics in community nutrition, food science and technology, developmental and metabolic aspects of nutrition. May be repeated to a maximum of six (6) semester hours as content changes. Consult instructor.

HUN 4905r. Directed Individual Study (1-3). May be repeated to a maximum of six (6) semester hours.

HUN 4913r. Honors Thesis (3-6). May be repeated to a maximum of six (6) semester hours.

HUN 4914r. Tutorial in Nutrition (1). (S/U grade only.) Small group discussions or project work. Topics selected in contemporary issues or current research. Maximum enrollment of ten (10) students per tutorial. May be repeated when topics change to a maximum of four (4) semester hours.

HUN 4931. Honors Seminar (1).

HUN 4941r. Nutrition Practicum (1-4). (S/U grade only.) Prerequisites: HEE 4054, 2.50 GPA. Supervised field experience with a selected government or nongovernment agency at the local or state level. May be repeated to a maximum of four (4) semester hours.

PET 3361. Nutrition and Sports (3). Prerequisites: HUN 1201; PET 3301C. The effects of sports training upon individual nutrient stores and requirements. The effects of nutrient intake upon sports performance.

PET 3380C. Applied Exercise Physiology (4). Prerequisite: PET 3301C. The nature of muscular, metabolic, cardiovascular, and respiratory adjustment to acute and chronic exercise.

PET 3621. Athletic Training I (3). Prerequisite: HSC 2400; Corequisite: PET 3301C. 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.

PET 3627C. Therapeutic Exercise/Rehabilitation (3). Prerequisites: PET 2942, 4623, 4632C. Corequisite: PET 3633C. Athletic training/sports medicine 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.

PET 3633C. Orthopedic Assessment - Upper Extremity (3). Prerequisites: PET 2942, 4623, 4632C. Corequisite: PET 3627C. Athletic training/sports medicine 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.

PET 3634C. Orthopedic Assessment - Lower Extremity (3). Prerequisites: PET 2942, 3627C, 3633, 4623, 4632C. Athletic training/sports medicine students examine the following topics included in this course: 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.

PET 3660. Administration of Athletic Training Programs (3). Prerequisite: PET 3621. This course will explore the aspects of athletic training organization and administration. Topics include program management, human resource management, athletic insurance, risk management, ethical consideration, pre-participation in physical exams and preparation of facility design.

PET 3932r. Special Topics in Wellness and Exercise Science (3-6). Topics in wellness, health promotion, exercise physiology, biomechanics and motor behavior. Consult instructor. May be repeated as content changes to a maximum of six (6) semester hours.

PET 3940r. Sports Medicine Practicum (0-6). This course is designed for athletic training/sports medicine students to investigate and research athletic training/sports medicine special topics through individual study and seminars. Enrollment is allowed by permission of the athletic training/sports medicine curriculum coordinator. May be repeated to a maximum of six (6) semester hours.

PET 3943. Athletic Training/Sports Medicine Clinical III (1). Prerequisite: PET 2942. This course is an introduction and evaluation of athletic training/sports medicine skills related to the following: proprioceptive neuromuscular facilitation; body measurement and composition; range of motion evaluation; equipment fitting; general medical conditions; eating disorders; components of Subjective, Objective, Assessment, and Plan (SOAP) protocols; Emergency Action Plan (EAP) protocols; risk management; joint mobilizations; and therapeutic rehabilitation exercises in sports medicine.

PET 4050C. Motor Control and Learning (4). Prerequisite: PET 3301C. Examines theories, principles, and practical applications in motor control and learning. Attention is given to the physiological and psychological foundations of motor control and learning. The motor control and learning laboratory portion of this course constitutes one (1) credit of the four (4) credit course. Required for nutrition and fitness majors.

PET 4076. Physical Dimensions of Aging (4). The course deals with the quality of life, 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 4213. Success in Sports (3). Prerequisite: PSY 2012. The course will focus on profiles of elite athletes. Emphasis will be placed on inherited and acquired capacities for elite performance. Pertinent supporting factors which enhance performance will be studied.

PET 4312C. Biomechanics (4). Prerequisite: PET 3301C. The course is structured into two major instructional units: foundations of human movement, and mechanical analysis of human motion. These units function to stimulate interest in quantitative biomechanics that integrates basic anatomy, physics, calculus and neurophysiology for the study of human movement. This knowledge will assist students in developing an

understanding of the biomechanical principles to incorporate in applied settings such as physical therapy, sports medicine and health and fitness programs.

PET 4551C. Exercise Testing and Prescription (3). Prerequisite: PET 3380C. 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 4623. Athletic Training II (3). Prerequisite: PET 3621. Advanced topics pertaining to athletic training. Evaluation, therapies and rehabilitation of athletic injuries. Required for NATABOC and CAAHEP.

PET 4625. Issues in Sports Medicine (3). Prerequisites: PET 3621, 4623. Course addresses advanced issues relevant to athletic training and sports medicine. Current topics include athletic training/sports medicine administration, athletic training/sports medicine pharmacology, advanced assessment techniques and orthopedic surgical observation.

PET 4632C. Therapeutic Modalities (3). Prerequisite: PET 3621. This course trains students in common physical therapy 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.

PET 4914r. Tutorial in Exercise Physiology (1). (S/U grade only.) Small group discussions or project work. Topics selected in contemporary issues or current research. Maximum enrollment of ten students per tutorial. Repeatable to a maximum of four (4) semester hours when the topic changes.

PET 4944. Athletic Training/Sports Medicine Clinical IV (1). Prerequisite: PET 3943. This course is an introduction and evaluation of athletic training/sports medicine skills related to the following: flexibility, isometric, isotonic and isokinetic tests; postural assessment; functional and neurological assessment of the spine; various joint pathologies; general medical diagnostic assessment; psychosocial intervention techniques; recognition of nutritional disorders; and rehabilitation techniques in sports medicine.

PET 4946. Athletic Training/Sports Medicine Clinical V (1). Prerequisite: PET 4944. This course is designed as a capstone for advanced level students who intend to enter the profession of athletic training/sports medicine. Students are evaluated on the previous skills taught in the athletic training/sports medicine clinical courses. Additional content includes oral, practical, and written examinations, professional development activities, and a research presentation on a related topic. All students enrolled in this course must show current proof of student membership in the National Athletic Trainers' Association (NATA).

PET 4947. Athletic Training/Sports Medicine Clinical VI (1). Prerequisite: PET 4946. Athletic training/sports medicine students in this course 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.

PET 4948r. Practicum in Exercise Sciences (1–6). Prerequisites: 2.75 GPA; HSC 2400 or equivalent; PET 3380C; permission of instructor. 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 (6) semester hours with permission of the instructor.

Graduate Courses

DIE	5248.	Clinical Nutrition in the Treatment and Prevention of Disease (4).
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	5802.	Research Design and Methodology (2).
HUN	5802L.	Research Design and Methodology Laboratory (3).
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 (1–6). (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 (1–9). (S/U grade only.)
PET	5077.	Physical Dimensions of Aging (4).
PET	5052.	Motor Memory (3).
PET	5053.	Motor Control (3).
PET	5054C.	Motor Skill Learning (3).
PET	5355C.	Advanced Exercise Physiology (3).
PET	5367.	Nutrition and Exercise Performance (3).
PET	5553.	Cardiorespiratory and Anthropometric Evaluation and Development of Exercise Programs (3).
PET	5930r.	Seminar in Movement Sciences (1).
PET	6339.	Neuromuscular Integration in Motor Skills (3).
PET	6365.	Exercise and the Cardiorespiratory System (4).
PET	6368.	Metabolic Responses to Exercise (3).
PET	6386.	Environmental Aspects of Exercise (3).
PET	6930r.	Seminar in Movement Sciences (1).
PET	6931r.	Advanced Topics (1–4).
PET	8945r.	Exercise Physiology Internship (1–9). (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*.

Department of OCEANOGRAPHY

COLLEGE OF ARTS AND SCIENCES

Chair: David Thistle; *Professors:* Burnett, Chanton, Clarke, Dewar, Hsueh, Iverson, Krishnamurti, Landing, Marcus, Nof, O'Brien, Stern, Thistle, Weatherly, Winchester; *Associate Professor:* Speer; *Assistant Professors:* Kostka, St. Laurent; *Director, Edward Ball Marine Laboratory:* Iverson; *Director, Women in Math Science, and Engineering Program:* Marcus; *Professor Emeritus:* Sturges

The Department of Oceanography offers no undergraduate major; however, undergraduate programs in the Departments of Chemistry and Biochemistry and Physics provide interdisciplinary options in oceanography. Undergraduates interested in pursuing a graduate degree in oceanography at The Florida State University may use the information below for proper preparation in each of the four areas of specialization in oceanography.

General Undergraduate Preparation. Students should complete one year of college physics, one year of college chemistry, and one year of calculus.

Specialty Undergraduate Preparation. Biological: one year of organic chemistry, bachelor of science (BS) or bachelor of arts (BA) in biology. Chemical: BS or BA in chemistry, differential equations. Geological: BS or BA in geology. Physical: BS or BA in physics, chemistry, geology, geophysics, meteorology, or mathematics, or a BS in engineering; intermediate or advanced mechanics; differential equations; advanced calculus, including vector calculus; partial differential equations.

Definition of Prefixes

ISC	—	Interdisciplinary Natural Science
MAP	—	Mathematics: Applied
OCB	—	Oceanography: Biological
OCC	—	Oceanography: Chemical

OCE	—	Oceanography
OCG	—	Oceanography: Geological
OCP	—	Oceanography: Physical
PEN	—	Physical Education Activities (General): Water, Snow, Ice
PSC	—	Physical Science

Undergraduate Courses

Elementary

ISC 2003. Global Change, Its Scientific and Human Dimensions (3). Prerequisites: Two years high school science, two years high school math. Global environmental change, scientific and human dimensions, and international public policy implications.

OCE 1001. Elementary Oceanography (3). Prerequisite: MGF 1106 or 1107. 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 4011.

PSC 2800C. Earth Science for EC/EE Teachers (4). For a complete description, see interdisciplinary science courses listed in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Science Preparatory

ISC 4931r. Special Topics in Environmental Science (1–3). Analyzes new scientific developments in the Earth's changing environment system and its links to human activities and policies. An emphasis on ocean, atmosphere, and terrestrial environments, and the human dimensions of their change will strengthen students' interdisciplinary understanding of environmental science. Specific topics will vary from year to year. May be repeated to a maximum of nine (9) semester hours.

OCE 4011. Principles of Oceanography (3). Prerequisite: A science major or minor. Dynamic motions and life processes in the marine environment. Long-term geologic history of the oceans and recent changes caused by man.

Advanced

OCB 4637. Marine Benthic Ecology (3). Prerequisite: ZOO 4203C or as a corequisite with permission of instructor. 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 are presented through lectures, substantial reading, and class discussions.

OCC 4002. Basic Chemical Oceanography (3). Prerequisites: CHM 1046. Chemical composition of seawater, carbon dioxide system, nutrients, trace elements, and biogeochemistry.

OCE 4017r. Current Issues in Environmental Science (3). Taught at an introductory level, this class includes discussions of current ground-breaking research, environmental problems and approaches to solving them. This course consists of presentations by experts on their current research topics or environmental issues. May be repeated to a maximum of six (6) semester hours.

OCG 4050. Geological Oceanography (3). Structural and oceanographic setting of continents and ocean basins, plate tectonics, ocean margins, marine sediments, and ocean history.

Specialized Instruction

OCE 4905r. Directed Individual Study (1–3). (S/U grade only.) May be repeated to a maximum of ten (10) semester hours.

OCE 4906r. Directed Individual Study (1–4). Prerequisite: Consent of instructor. May be repeated, subject to limitations that may apply from the individual student's major departments, to a maximum of eighteen (18) semester hours.

OCE 4930r. Studies in Oceanography (1–4). Prerequisite: See instructor. Topics vary. May be repeated to a maximum of nine (9) semester hours when content changes.

PEN 1136. Theory and Practice of Compressed-Gas Diving (3). An introduction to the field of compressed-gas diving that exposes the students to the use of underwater technology and techniques in support of science.

Graduate Courses

Note: some graduate courses the department offers are open to advanced undergraduates with consent of the instructor. For more information, refer to the "Department of Oceanography" entry in the *Graduate Bulletin*.

Core Curriculum

- OCB 5050. Basic Biological Oceanography (3).
- OCC 5050. Basic Chemical Oceanography (3).
- OCG 5051. Basic Geological Oceanography (3).
- OCP 5050. Basic Physical Oceanography (3).

Biological Oceanography

- OCB 5515. Marine Microbiology (3).
- OCB 5565. Marine Primary Production (3).
- OCB 5566. Zooplankton Ecology (3).
- OCB 5600. Biological Fluid Dynamics (3). (S/U grade only.)
- 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 5065. Environmental Chemistry (3).
- OCC 5415. Marine Geochemistry (3).

- OCC 5416. Organic Geochemistry (3).
- OCC 5417. Geochemical Ocean Tracers (3).
- OCC 5554. Atmospheric Chemistry (3).
- OCG 5457. Stable Isotopes as Tracers in Aquatic Ecosystems (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 5253. Fluid Dynamics: Geophysical Applications (3).
- OCP 5255. Stability of Geophysical Fluid Flows (3).
- OCP 5259. Eddies and Rings as Heat-Exchange Mechanisms (3).
- OCP 5262. Coastal Ocean Dynamics (3).
- OCP 5263. Equatorial Dynamics (3).
- OCP 5265. Main Ocean Thermocline (3).
- OCP 5271. Turbulence (3).
- OCP 5285. Dynamic Oceanography (3).
- OCP 5551. Physics of the Air-Sea Boundary Layer (3).

Specialized Instruction and Seminar

- OCC 5419C. Advanced Biogeochemistry: Field Methods and Concepts (3).
- OCB 5930r. Special Topics in Biological Oceanography (1–3).
- OCC 5930r. Special Topics in Chemical Oceanography (1–3).
- OCP 5930r. Special Topics in Physical Oceanography (1–3).
- 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.)
- OCB 5939r. Biological Oceanography Seminar (1). (S/U grade only.)
- OCC 5939r. Chemical Oceanography Seminar (1). (S/U grade only.)
- OCP 5939r. Physical Oceanography Seminar (1). (S/U grade only.)

General

- OCE 5009. Advanced General Oceanography (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

**ORGANISMAL BIOLOGY:
see Biological Science**



Department of PHILOSOPHY

COLLEGE OF ARTS AND SCIENCES

Chair: Russell M. Dancy; *Professors:* Dancy, Hodges, Mele; *Associate Professors:* Dalton, Matthews, Morales, Rawling; *Assistant Professor:* Crisp, Nahmias; *Visiting Professor:* Ruse; *Visiting Assistant Professors:* Gert, Maslen

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 degrees at all levels.

The department participates in the honors program, as well as the undergraduate programs in the following departments or programs: American 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 Program (see listing under Liberal Studies Program, Area IV in the "Undergraduate Degree Requirements" chapter of this *General Bulletin*).

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, Wittgenstein, Plato, Aristotle, Kant, ethical theory, history and philosophy of science in science teaching, human rights, Kantian themes in ethics, and philosophy and biology. Werkmeister conferences on a variety of topics are held annually.

The department offers monthly gatherings for undergraduate majors and prospective majors. These gatherings sometimes focus around talks dealing with either philosophical issues or concerns for majors; other gatherings simply allow majors to get to know each other and members of the faculty.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

No statewide common course prerequisites have been identified for this program.

Though no statewide prerequisites are required, faculty in this program recommend that students take courses with the PHH, PHI, PHM or PHP prefix at the lower level.

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 (30) semester hours in philosophy are required for the major, including the following:

1. **Logic (3 semester hours)**

PHI 3130 Introduction to Symbolic Logic (3)

2. **History of Philosophy (6 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 (3 semester hours)**

PHI 3670 Ethical Theory (3)

4. **Contemporary Metaphysics and Epistemology (3 semester hours). One of:**

PHI 3220 Introduction to Philosophy of Language (3)

PHI 3300 Knowledge and Belief (3)

PHI 3320 Philosophy of Mind (3)

PHI 4500 Metaphysics (3)

PHH 4600r Contemporary Philosophy (3)

5. **Seminar for Majors, to be taken in the senior year (3 semester hours)**

PHI 4938r Seminar for Majors (3)

Additional requirements: At least twenty-one (21) semester hours in the major must be at the 3000 level or above; at least fifteen (15) semester hours must be completed in the philosophy department at The 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 (12) semester hours in philosophy are required for the minor, including:

1. **Logic (3 semester hours). One of:**

PHI 2100 Reasoning and Critical Thinking (3)

PHI 3130 Introduction to Symbolic Logic (3)

2. **History (3 semester hours). One of:**

PHH 3130 Plato and His Predecessors (3)

PHH 3140 Aristotle to Augustine (3)

PHH 3061 Medieval and Renaissance Philosophy (3)

PHH 3400 Modern Philosophy (3)

PHH 3500 Nineteenth-Century Philosophy (3)

At least six (6) 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 (12) semester hours in philosophy are required for the minor, including:

1. **Logic (3 semester hours). One of:**

PHI 2100 Reasoning and Critical Thinking (3)

PHI 3130 Introduction to Symbolic Logic (3)

2. **Nine (9) semester hours from:**

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 3350 Introduction to Marxist Philosophy (3)

PHM 3400	Philosophy of Law (3)
PHM 4340r	Contemporary Political Thought (3)

At least six (6) 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 Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

PHH	—	Philosophy: History
PHI	—	Philosophy
PHM	—	Social and Political Philosophy
PHP	—	Philosophers and Schools

Undergraduate Courses

PHI 2010. Introduction to Philosophy (3). An introduction to some of the central problems in philosophy. Students will also learn how to construct and criticize arguments, and develop their own philosophical positions.

PHI 2100. Reasoning and Critical Thinking (3). An introductory logic course intended to provide students with an understanding of and practice in using reasoning to support conclusions and decisions. The course emphasizes acquisition of the skills necessary to draft clear, persuasive arguments and is particularly useful for those planning further studies in fields such as Law or Business.

PHI 2620. Environmental Ethics (3). An examination of environmental issues past and present, and how they have made an impact upon contemporary society. 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). A course that will draw 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) will be examined.

PHI 2635. Biomedical Ethics (3). A study of the controversial ethical issues that arise within the practice of medicine and within biomedical research. Case studies and thought experiments will be used to explore the moral and professional responsibilities of those working in the medical profession.

PHI 3130. Introduction to Symbolic Logic (3). An examination of 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). An exploration of 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). A critical analysis of 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). Analysis of 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 3400. History and Philosophy of Science (3). 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 3420. Philosophy of the Social Sciences (3). A study of the special methodological and value problems that arise when human beings engage in the scientific study of themselves as groups and individuals.

PHI 3641. Business Ethics (3). 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). A study of 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). Analysis of major issues in philosophy of religion. Topics may include the rationality of religious belief, faith, religious experience, religious language, evil, the relation between religion and morality. Also offered by the Department of Religion.

PHI 3800. Philosophy of the Arts (3). An introduction 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). 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). An exploration of how metaphysical and moral ideas function within the structure of selected novels and plays.

PHI 3930r. Selected Topics (1–3). (S/U grade only.) May be repeated to a maximum of three (3) semester hours.

PHI 4134. Modern Logic I (3). Prerequisite: PHI 3130, equivalent, or permission of instructor. 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, soundness and completeness theorems.

PHI 4137. Modern Logic II (3). Prerequisite: PHI 4134. 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). 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 (6) semester hours.

PHI 4912r. Honors Work (3). May be repeated to a maximum of twelve (12) semester hours.

PHI 4930r. Philosophical Problems (3). An examination of selected philosophical problems from an advanced point of view. May be repeated to a maximum of nine (9) semester hours.

PHI 4938r. Seminar for Majors (3). Variable-content seminar for majors to do in-depth work in selected philosophical topics/areas and to practice writing a substantive philosophical paper. May be repeated once with permission of instructor to a maximum of six (6) semester hours.

PHI 4999r. Tutorial in Philosophy (1–3). Critical readings and discussions of important classical and contemporary philosophical texts. Variable content. Variable credit: one to two (1–2) semester hours for a reading course; two to three (2–3) semester hours for a reading course with substantial writing. Repeatable with permission of instructor to a maximum of twelve (12) semester hours.

History of Philosophy

PHH 3061. Medieval and Renaissance Philosophy (3). A survey of 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). 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). 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). 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). An exploration of the diverse styles, ideas, and systems of such philosophers as Hegel, Kierkegaard, Schopenhauer, Marx, Mill, Bradley, and Nietzsche.

PHH 3700r. American Philosophy (3). An examination of 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 (6) semester hours.

PHH 4600r. Contemporary Philosophy (3). The main recent philosophical movements are surveyed 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 permission of instructor to a maximum of nine (9) semester hours.

Social and Political Philosophy

PHM 2121. Philosophy of Race, Class and Gender (3). Concentration on contemporary philosophical discussions of race, class, and gender. Topics include the analysis of key institutions (e.g., work, the economy, family, education) and social issues (e.g., identity, sexuality, violence, social change).

PHM 2300. Introduction to Political Philosophy (3). An introduction 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 3123. Philosophy of Feminism (3). 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). 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 (9) semester hours. Also offered by the Department of Political Science.

PHM 3350. Introduction to Marxist Philosophy (3). 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.

PHM 3400. Philosophy of Law (3). 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). 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 (9) semester hours. Also offered by the Department of Political Science.

Philosophers and Schools

PHP 3786r. Existentialism (3). An introduction 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 (9) semester hours.

PHP 4930r. Studies in Major Philosophers (3). 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 (9) 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	5971r.	Thesis (1–6). (S/U grade only.)
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	6506r.	Metaphysics (3).
PHI	6607r.	Ethics (3).
PHI	6808r.	Aesthetics (3).
PHI	6935r.	Seminar in Philosophical Topics (3).
PHI	6980r.	Dissertation (1–12). (S/U grade only).
PHM	6205r.	Social and Political Philosophy (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

**PHILOSOPHY:
see also Religion**

**PHOTOGRAPHY:
see Art**

Department of PHYSICS

COLLEGE OF ARTS AND SCIENCES

Chair: Kirby Kemper; *Associate Chair:* Van Winkle; *Professors:* Baer, Berg, Brooks, Cottle, Crow, Dagotto, Dennis, Duke, Edwards, Fisk, Hagopian, Kemper, Kimel, Manousakis, Moreo, W. Moulton, Owens, Petrovich, Prosper, Rikvold, Riley, Robson, Schlottman, Schrieffer, Skofronick, Tabor, Van Winkle, von Molnar, Wahl; *Associate Professors:* Blessing, Bonesteel, Capstick, Dobrosavljevic, Lind, Ng, Piekawicz, Shaheen; *Assistant Professors:* Adams, Cao, Eugenio, Reina, Xiong, Yang; *Visiting Assistant Professors:* Hong, Wiedenhofer; *Professors Emeriti:* Albright, Desloge, Fletcher, Fox, Hunt, Kromhout, G. Moulton, Philpott, Plendl, Sheline, Testardi

The Florida State University's Department of Physics offers many exciting programs and opportunities for students interested in learning physics. Our physics curriculum is flexible, structured according to the student's long-range goals, and provides a solid foundation for future graduate work or immediate employment opportunities. Interdisciplinary degree options are available and many students pursue double majors which include physics. There are many reasons students seek the challenges and rigors that come from making physics a part of their undergraduate studies. Those who do 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 find themselves capable of contributing 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 the spaceboom 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, including the Nobel prize. 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 The 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 the area of computational physics and both experimental and theoretical studies in high energy, nuclear, condensed matter, and atomic and molecular physics. There are also many opportunities for interdisciplinary research, particularly in the Center for Materials Research and Technology (MARTECH), the National High Magnetic Field Laboratory (NHMFL), the School of Computational Science

and Information Technology (CSIT), the Institute of Molecular Biophysics (IMB), and, as a separate degree program, in Chemical Physics.

Available experimental facilities include the following: a 9.5 MV Super FN Tandem Van de Graaff accelerator with superconducting post accelerator, 3- and 4-MV Van de Graaffs, electron spin resonance and electron double nuclear resonance spectrometers, a detector development laboratory for high-energy particle detectors, 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, three 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 microscopies 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.

Computers are an integral part of almost all research programs in the department. The computational infrastructure is upgraded continuously to keep pace with advances in technology. The department is fully connected to the Internet, and maintains a Physics Instructional Computer Laboratory (PICL) for students. 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), bachelor of arts (BA), master of science (MS), and doctor of philosophy (PhD). There is a targeted, five (5) year program of study leading to both BS and MS degrees in computational physics. An undergraduate interdisciplinary program is designed to prepare students to work in areas that combine physics with other fields. The departmental course offerings include courses for non-science majors, courses for non-physical science majors, courses for K-12 educators, and courses for physical science majors. Honors work is available. Details may be obtained from the chair of the department.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for these University degree programs. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Physics

1. CHM 1045/1045L or CHM 1040 and CHM 1041 or CHM 1045C or CHM 1045E;
2. CHM 1046/1046L or CHM 1046C or CHM 1046E;
3. MAC 2311 or MAC X281;
4. MAC 2312 or MAC X282;
5. MAC 2313 or MAC X283;
6. PHY 2048/2048L or PHY 2048C;
7. PHY 2049/2049L or PHY 2049C.

Interdisciplinary Physics Program

1. CHM 1045/1045L or CHM 1040 and CHM 1041 or CHM 1045C and CHM 1045E;
2. CHM 1046/1046L or CHM 1046C or CHM 1046E;

3. MAC 2311;
4. MAC 2312;
5. Choose **between** the CHM or PHY sequence:
 - a) CHM 2210/2210L and CHM 2211/2211L or CHM 2210C and CHM 2211C;

Or

- b) PHY 2048/2048L and PHY 2049/2049L or PHY 2048C and PHY 2049C or PHY 2053C and PHY 2054C.

Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

A brochure stating degree requirements in detail and containing outlines of undergraduate programs that will meet all departmental and University requirements is available from the departmental undergraduate affairs office. Students expecting to major in physics or in the interdisciplinary program in physics should obtain this brochure as soon as possible.

The University Oral Competency Communication requirement may be satisfied by taking PHY 3091 Communications in Physics or PHY 4990r Senior Seminar.

Physics Program

A major is required to take general physics A (PHY 2048C or 2048/2048L), general physics B (PHY 2049C or 2049/2049L), intermediate modern physics (PHY 3101), intermediate mechanics (PHY 3221), mathematical physics (PHZ 3113), intermediate electricity and magnetism (PHY 4323), thermal and statistical physics (PHY 4513), quantum theory of matter A (PHY 4604), intermediate laboratory (PHY 3802L), advanced laboratory (PHY 4822Lr), and at least three of the following courses: optics (PHY 3424), advanced dynamics (PHY 4241), quantum theory of matter B (PHY 4605), computational physics (PHZ 4151C), physics of stars (AST 4217), particle and nuclear physics (PHZ 4390), phenomena in condensed matter physics (PHZ 3400). A major must also complete one semester of general chemistry (CHM 1045/1045L or CHM 1050/1050L), mathematics through differential equations (MAP 2302) or engineering mathematics I (MAP 3305), calculus III (MAC 2313), and satisfy the language requirement with French, German, Japanese, or Russian.

Students who are planning to conduct graduate work in physics are strongly advised to include advanced dynamics (PHY 4241), and, if possible, quantum theory of matter B (PHY 4605) in their programs.

No physics course with a grade below "C-" may be used to satisfy the above requirements.

In addition to satisfying the above requirements, the student must satisfy the general requirements of both the College of Arts and Sciences and the University with the exception that a minimum of

one hundred twenty-four (124) semester hours rather than one hundred twenty (120) semester hours is required for graduation.

The Department of Physics will withhold acceptance as a physics major until the student, in consultation with one of the upper-division physics advisers, has laid out an acceptable program of studies.

Interdisciplinary Program in Physics

The interdisciplinary program in physics is designed to prepare a student for work in areas which combine physics with other fields, such as management, high school teaching, medicine, political science, oceanography, environmental sciences, philosophy, computer science, and others.

An interdisciplinary physics major is required to take the following:

1. General physics A (PHY 2048C or 2048 and 2048L), general physics B (PHY 2049C or 2049 and 2049L), intermediate modern physics (PHY 3101);

2. At least three of the following courses: intermediate mechanics (PHY 3221), intermediate electricity and magnetism (PHY 4323), optics (PHY 3424), mathematical physics (PHZ 3113), thermal and statistical physics (PHY 4513), quantum theory of matter A (PHY 4604), quantum theory of matter B (PHY 4605), computational physics (PHZ 4151C);

3. Intermediate laboratory A (PHY 3802L), and at least one (1) additional hour of laboratory credit from among the following courses (where the number of laboratory credits associated with each course is indicated after the course number): intermediate laboratory B (PHY 3803L [1]), advanced laboratory (PHY 4822Lr [2]), computational physics (PHZ 4151C [3]);

4. Additional physics courses are required for some interdisciplinary programs. See the department for details.

5. A mathematics minor is required that must include mathematics through differential equations (MAP 2302) or engineering mathematics I (MAP 3305), plus an additional three (3) hours of credit at the 3000 level or greater;

6. One semester of general chemistry (CHM 1045/1045L or CHM 1050/1050L);

7. A suitable set of courses in some discipline other than physics. The number and nature of these courses must be individually arranged and approved in advance by the committee of physics advisers.

No physics course with a grade below "C-" may be used to satisfy the above requirements.

The Department of Physics will withhold acceptance as an interdisciplinary physics major until the student, in consultation with one of the upper-division physics advisers, has laid out an acceptable program of studies.

Computational Physics BS/MS Program

This five-year program is designed to train graduates in physics and computing. By combining a rigorous physics program with extensive instruction in computer science and computational physics, students acquire formal and practical training in both physics and computing. Consequently, they are prepared for scientific and technical jobs requiring extensive software development and/or computing.

At the end of five years, students obtain a bachelor of science degree with a major in physics, a dual minor in computer science and mathematics, and a master of science degree in physics. Students may select either a thesis or a non-thesis MS program.

Minor

The required mathematics for all physics programs is sufficient to constitute an acceptable minor in mathematics, but a student who so desires may take an additional approved 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 Program and Honor Societies" chapter of this *General Bulletin*.

Minor in Physics

To obtain a minor in physics a student is required to take general physics A (PHY 2048C or 2048 and 2048L), general physics B (PHY 2049C or 2049 and 2049L), and at least one of the following courses: intermediate modern physics (PHY 3101), intermediate mechanics (PHY 3221), intermediate electricity and magnetism (PHY 4323), optics (PHY 3424), thermal and statistical physics (PHY 4513). Grades below "C–" will not be accepted for a minor.

Definition of Prefixes

AST	—	Astronomy
PHY	—	Physics
PHZ	—	Physics: Specialized
PSC	—	Physical Science

Undergraduate Courses

ISC 3121. Science, Technology, and Society (3).

SCE 4939R. Seminar in Contemporary Science, Mathematics, and Science Education (1).

Note: for descriptions of the above courses, see interdisciplinary science courses listed in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Courses for Non-Science Majors

AST 1002. Planets, Stars, and Galaxies (3). Introductory astronomy. Basic astronomical concepts; gravitation and other cosmic forces; planets, moons, and other components of the solar system; nature and evolution of the sun and of other stars; structure of galaxies and of the universe as a whole. (Astronomy for liberal studies.)

AST 1002L. Introductory Astronomy Laboratory (1). Corequisite: AST 1002. Elective laboratory to accompany AST 1002. One period per week for two (2) hours. Experiments, measurements, and observations of planetary, stellar, galactic, and extragalactic astronomy. (Astronomy laboratory for liberal studies.)

AST 3033. Recent Advances in Astronomy and Cosmology (3). Prerequisites: a course in astronomy and fulfillment of the basic math requirement, or consent of instructor. Modern concepts and recent discoveries such as black holes, quasars, and the Big Bang.

PHY 1020. Fundamentals of Physics (3). A liberal studies course for the non-science major with a minimum of mathematics. Survey of light, mechanics, electricity, and magnetism and an introduction to atomic, nuclear and subnuclear physics with emphasis on how the physicist approaches the problem of describing nature. A qualitative, descriptive approach is used. Cannot be taken for credit by students who already have credit in PHY 2048C, 2053C, or equivalent.

PHY 1020L. Fundamentals of Physics Laboratory (1). Corequisite: PHY 1020. Elective laboratory to accompany PHY 1020. One period per week for two (2) hours. Experiments in mechanics, optics, electricity, and magnetism. (Liberal studies laboratory.)

PHY 1075C. Physics of Light and Sound (4). A liberal studies course for the non-science major emphasizing learning the aspects of light and sound needed in recording images and sound. It includes analysis of color, waves, reflection, refraction, imaging, diffraction, spectra, sound levels and perception, and signal processing.

PHY 2464. Physical Basis of Music (3). A study of musical sound using basic physical principles. Applications to musical instruments, room acoustics, and high-fidelity systems.

College Physics for Non-physical Science Majors

PHY 2053C. College Physics A (4). Prerequisites: MAC 1140 and 1113 with grades of "C–" or better; or appropriate score on a mathematics placement examination. Corequisite: CHM 1045. An introduction to mechanics, heat, and waves for non-physical science majors. Examples from biology, geology and medicine are incorporated. First course in a two-semester sequence. Calculus not required. Two lectures, one recitation, and one laboratory each week. Students who have previously received credit for PHY 2048C may not register for PHY 2053C. (Must sign up for PHY 2053L.)

PHY 2053L. College Physics A Laboratory (0).

PHY 2054C. College Physics B (4). Prerequisite: PHY 2053C or 2048C. 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. (Must sign up for PHY 2054L.)

PHY 2054L. College Physics B Laboratory (0).

PHZ 3701. Medical Physics (3). Corequisite: PHY 2054C or 2049C. Applications of physics in physiology and medicine.

Physics for K–12 Educators

PHY 4012C. Physics for Science Teachers A (3). Intended for pre-service and in-service middle and high school science teachers who are not seeking certification in physics. Forces, work and mechanical energy, linear momentum, centripetal force, gravity, and rotational motion waves. Labs are incorporated into class time. Cannot be used toward the requirements for the degree in physics.

PHY 4013C. Physics for Science Teachers B (3). Prerequisite: PHY 4012C. The second semester of the introductory physics sequence intended for pre-service and in-service middle and high school science teachers who are not seeking certifi-

cation in physics. Electricity, magnetism, light, atomic physics, nuclear science, and the physics of stars. Cannot be used toward the requirements for the degree in physics.

PHY 4120C. Physics of the 20th Century (3). Prerequisites: PHY 2049C, 2054C, or 4013C. Experimental observations that have led to the development of quantum mechanics, relativity and modern theories of the creation of the universe will be explored. The course is descriptive rather than emphasizing the mathematical power of current physics theories. Laboratory work will be an integral part. Designed for pre- and in-service high school teachers. Can be used for science credit for science education majors in masters and doctoral degree programs, but not for a major or minor in physics.

PSC 2801C. Physical Science for EC/EE Teachers (4). This course is designed for prospective elementary and early childhood education majors. The course integrates physics and chemistry with the laboratory integral to the course. Students will work in groups in a hands-on, minds-on approach to learning physical science.

General Physics for Physical Science Majors

PHY 2048C. General Physics A (5). Corequisite: MAC 2311. An introduction to mechanics, waves, and thermodynamics for physical science majors, designed to be taken as a sequence with PHY 2049C. Calculus is used. Course consists of lectures, recitations, and laboratory. A student who has taken PHY 2053C or an equivalent course may take PHY 2048 rather than 2048C. (Must sign up for PHY 2048L.)

PHY 2048. General Physics A without Laboratory (3). Same course as PHY 2048C, except that the student does not take the laboratory. May only be taken by students who have passed PHY 2053C or an equivalent course.

PHY 2048L. General Physics A Laboratory (0).

PHY 2049C. General Physics B (5). Prerequisite: PHY 2048C or 2048 with a grade of "C" or better, or consent of instructor. Corequisite: MAC 2312. An introduction to electricity, magnetism, and optics for physical science majors. Calculus is used. Course consists of lectures, recitations, and laboratory. A student who has taken PHY 2054C or an equivalent course may take PHY 2049 rather than 2049C. (Must sign up for PHY 2049L.)

PHY 2049. General Physics B without Laboratory (3). Same course as PHY 2049C, except that the student does not take the laboratory. May only be taken by students who have passed PHY 2054C or an equivalent course.

PHY 2049L. General Physics B Laboratory (0).

Required Courses for Majors

PHY 3101. Intermediate Modern Physics (3). Prerequisite: PHY 2049C. Special relativity, quantum properties of light and matter, origins of the universe.

PHY 3221. Intermediate Mechanics (3). Prerequisite: PHY 2048C. Corequisite: MAP 2302 or 3305. Principles and applications of the Newtonian mechanics of particles and systems of particles. Noninertial reference frames, simple and damped harmonic motion, central force motion, motion of a rigid body in a plane.

PHY 4323. Intermediate Electricity and Magnetism (3). Prerequisites: PHY 2049C; PHZ 3113. Electrostatics, magnetostatics, time-varying electric and magnetic fields, Maxwell's equations.

PHY 4513. Thermal and Statistical Physics (3). Prerequisite: MAC 2313. Corequisite: PHY 3101. The fundamental laws of thermodynamics and their application to simple systems. The kinetic theory of an ideal gas. An introduction to the classical and quantum statistical mechanics of weakly interacting systems.

PHY 4604. Quantum Theory of Matter A (3). Prerequisites: PHZ 3113; PHY 3101. Quantum mechanics and its applications to particles, nuclei, atoms, molecules, and condensed matter.

PHZ 3113. Mathematical Physics (3). Prerequisite: PHY 2049, 2049C, or 2054C. Corequisite: MAP 2302 or 3305. Mathematical methods applied to physical systems; vectors, specialized techniques of integration, integral transforms, special functions, boundary-value problems, numerical methods.

Elective Courses

AST 4217. The Physics of Stars (3). Prerequisites: PHY 3101, 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.

PHY 3424. Optics (3). Prerequisite: PHY 2049C. Geometrical optics, wave optics, optical instrumentation, properties of light, lasers, fiber optics.

PHY 4241. Advanced Dynamics (3). Prerequisites: PHY 3221, 4323. This course examines a variety of topics including Hamiltonian dynamics and electrodynamics of particles, waves in continuous media, relativistic dynamics, and electrodynamics of particles.

PHY 4605. Quantum Theory of Matter B (3). Prerequisite: PHY 4604. Quantum mechanics and its applications to particles, nuclei, atoms, molecules, and condensed matter.

PHZ 3400. Phenomena in Condensed Matter Physics (3). Prerequisites: MAP 2302 or 3305; PHY 3101. Topics to be covered in this course include crystal structures, phonons and thermal properties, electron energy bands, metals, semiconductors, superconductors, and magnetism.

PHZ 4390. Particle and Nuclear Physics (3). Prerequisites: MAP 2302 or 3305; PHY 3101; or permission of instructor. This course examines the properties of nuclei and particles, nuclear and particle decays, the Standard Model, and accelerator and detector techniques.

Laboratory Courses

PHY 3802L. Intermediate Laboratory A (1). Corequisite: PHY 3101. 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 on the development of skill in the written presentation of results.

PHY 3803L. Intermediate Laboratory B (1). Prerequisite: PHY 3802L. Experiments in atomic spectroscopy, mechanics, radio-frequency and microwave measurements, vacuum technique, and data accumulation with microprocessors. The area of emphasis is arranged between the student and the instructor.

PHY 4822Lr. Advanced Laboratory (2). Prerequisite: PHY 3802L. Experiments in atomic physics, nuclear physics, and other areas of modern physics. Students are expected to work without detailed instructions. The course may be repeated to a maximum of six (6) semester hours for special projects arranged in advance between the student and the instructor.

PHZ 4151C. Computational Physics Laboratory (3). Prerequisites: COP 2000; MAP 3305; PHY 2049C. An introduction 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.

Research and Special Topics

PHY 3936r. Special Topics in Physics (1–3). (S/U grade only.) May be repeated to a maximum of twelve (12) semester hours.

PHY 3949r. Cooperative Work Experience (0). (S/U grade only.)

PHY 4905–4908r. Directed Individual Study [one to three (1–3) hours each]. Each course may be repeated to a maximum of eighteen (18) semester hours.

PHY 4910r. Research Participation (2). 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 eight (8) semester hours.

PHY 4936r. Special Topics in Physics (3). Prerequisite: Senior standing or permission of instructor. Advanced applications of physics to topics of interest, such as relativity, astrophysics, particle physics, advanced solid state physics, or advanced nuclear physics. Offered on demand. May be repeated to a maximum of twelve (12) semester hours.

PHY 4937r. Undergraduate Tutorial in Physics (1–3). (S/U grade only.) Prerequisite: Upper division undergraduate standing. Selected topics in modern physics. Examination of primary research literature. May be repeated to a maximum of fifteen (15) semester hours. A maximum of eight (8) students allowed in each tutorial.

PHY 4970r. Honors Work (1–6). May be repeated to a maximum of nine (9) semester hours.

PHY 4975. Senior Thesis (1). Prerequisite or Corequisite: PHY 4910. 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 4910r. Students present results of their physics research to the class for discussion. May be repeated to a maximum of two (2) semester hours.

Other Courses

PHY 1090r. Discovering Physics (1). (S/U grade only.) This course serves as an introduction to the exciting work currently being done by physicists. Topics include the elements and the day-to-day work done to answer questions in elementary particle physics, nuclear physics, and condensed matter physics. May be repeated to a maximum of two (2) semester hours.

PHY 3091. Communication in Physics (2). Prerequisite: PHY 2048. Corequisite: PHY 2049. Instruction and practice in oral communications for physicists. Students will choose physics topics in consultation with instructor and present them to the class.

PHY 3092r. Readings In Physics (1). Readings in physics topics of current or historical interest beyond the core content of PHY 2048 and 2049. May be repeated to a maximum of two (2) semester hours.

PHY 4222. Advanced Mechanics (3). Prerequisite: PHY 3221. Kinematics and dynamics of rigid bodies, introduction to Lagrangian and Hamiltonian mechanics, dynamics of oscillating systems.

PHY 4324. Advanced Electricity and Magnetism (3). Prerequisite: PHY 4323. Applications of Maxwell's equations, electromagnetic waves, and radiation.

PHZ 4601. Special and General Relativity (3). Prerequisites: PHY 3221, 4323. This course examines the following topics: special theory of relativity; tensor analysis and curvature; general theory of relativity; experimental tests; black holes; gravitational radiation; and cosmology.

Graduate Courses

PHY 5083C. Physics in the Secondary Science
5084C. Classroom A, B (3,3).

PHY 5142. Current Topics in Physics: Part II (3).

PHY 5154C. Visualization and Symbolic Application Methods in Physics (3).

PHY 5157. Advanced Numerical Applications in Physics (3).

PHY 5158C. Management of Scientific Computations (3).

PHY 5226. Intermediate Mechanics (3).

PHY 5227. Advanced Mechanics (3).

PHY 5246. Theoretical Dynamics (3).

PHY 5326. Intermediate Electricity and Magnetism (3).

PHY 5327. Advanced Electricity and Magnetism (3).

PHY 5346, 5347. Electrodynamics A, B (3, 3).

PHY 5430. Physics of Materials (3).

PHY 5515. Thermal and Statistical Physics (3).

PHY 5524. Statistical Mechanics (3).

PHY 5607r, 5608r. Quantum Theory of Matter (3, 3).

PHY 5645, 5646. Quantum Mechanics A, B (3, 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 Mechanics C (3).

PHY 5846C. Techniques in Experimental 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 (1–5). (S/U grade only.)

PHY 6165. Issues in Advanced Physics (3).

PHY 6935r. Advanced Seminar (1). (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 5354. High-Energy Physics I (3).

PHZ 5355. High-Energy Physics II (3).

PHZ 5491. Condensed Matter Physics I (3).

PHZ 5492. Condensed Matter Physics II (3).

PHZ 5606. Special and General Relativity (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**

Department of POLITICAL SCIENCE

COLLEGE OF SOCIAL SCIENCES

Chair: Dale L. Smith; *Professors:* Atkins, Barrilleaux, Berry, Crew, Flanagan, G. Parker, Scholz; *Associate Professors:* Carsey, Claggett, Hensel, Jackson, Kemp, Kim, Mitchell, Mondak, Moore, S. Parker, Smith; *Assistant Professors:* Canache, Martin, Souva; *Professors Emeriti:* Bone, Dye, Flory, Glick, Gray, Palmer, Roady, St. Angelo, Vanderoef; *Affiliated Faculty:* Feiock

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.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. Two introductory courses (six [6] semester hours) in political science with the POS, INR or CPO prefix.

Requirements for a Major in Political Science

A political science major consists of thirty (30) semester hours in political science with a grade of "C–" or better in each course, with the following restrictions:

- at least twenty-one (21) semester hours in courses numbered 3000 and above;
- at least twenty-one (21) semester hours in an assembled classroom (as distinguished from individual credit for honors, directed studies, and internships); and
- at least twelve (12) semester hours in an assembled classroom at The Florida State University (including the study abroad program).

The political science program includes six subfields of study: American government (course prefix is POS), comparative politics (CPO), international relations (INR), political theory (POT; PHM 2300, PHM 3331r and PHM 4340r can be counted as POT courses), public policy (PUP), and public administration (PAD)—PAD courses are listed under the School of Public Administration. Interdisciplinary social science courses (ISS) may count as political science courses if the instructor is a faculty member in political science. The instructor will stipulate the political science subfield for which the course should be counted.

Majors must take at least three introductory courses, choosing from: CPO 2002, INR 2002, POS 1041, POS 2001, PUP 3002, PAD 3003, and either POT 3003 or PHM 2300 (but not both). **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 (6) semester hours in any three subfields. The introductory courses listed above can be counted toward this subfield requirement.

POS 3713, Understanding Political Science Research, is required of all majors.

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 Program 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 (6) 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 (60) semester hours; completion of fifteen (15) semester hours in political science with a "C–" or better, including POS 3713; a grade point average of 3.0 overall in political science courses; permission from the internship director.

For complete details interested students should contact the department.

Requirements for a Minor in Political Science

Students majoring in other departments or programs may minor in political science with fifteen (15) semester hours of political science with grades of "C–" or better. A maximum of six (6) semester hours of PAD and PHM prefixes combined may be counted toward the minor. At least nine (9) semester hours must be at the 3000 level or above, and at least six (6) of those must be earned at The Florida State University.

Definition of Prefixes

CPO	—	Comparative Politics
INR	—	International Relations
PHM	—	Philosophy of Man and Society
POS	—	Political Science
POT	—	Political Theory
PUP	—	Public Policy
SYD	—	Demography and Area Studies

Undergraduate Courses

American Government

POS 1041. American Government: National (3). 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 1112. American Government: State and Local (3). A study of the organization, functions, and policies of governments below the national level (state, county, and city).

POS 3122. State Politics (3). Prerequisite: POS 1041 or consent of instructor. 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 consent of instructor. 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 consent of instructor. 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 3263. Political Elites and Representation (3). Prerequisite: POS 1041 or consent of instructor. 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 consent of instructor. 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 3463. Interest Groups in Democratic Politics (3). Prerequisite: POS 1041 or consent of instructor. The activities of lobbyists and interest groups in the U.S. and Florida as they relate to the initiation, formulation, enactment, and interest group administration of public policies.

POS 3691. Law and Society (3). Prerequisite: POS 1041 or permission of instructor. 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 (1-3). Prerequisite: POS 1041 or consent of instructor. Varies with the instructor and semester. May be repeated to a maximum of nine (9) semester hours.

POS 4210. Economic Interpretations of American Politics (3). Prerequisite: POS 1041 or consent of instructor. Introduces students to economic interpretations of American politics in a nonmathematical fashion, critically evaluating these explanations against empirical research on constitution making, bureaucratic behavior, congressional decision making, electoral choice, the behavior of political parties and interest groups, and public policy outcomes.

POS 4275. Political Campaigns (3). Prerequisite: POS 1041 or consent of instructor. 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 consent of instructor. Survey of 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 consent of instructor. 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 consent of instructor. 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 consent of instructor. 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 consent of instructor. 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). 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 from Western democracies, the third world, and current or former communist countries.

CPO 3034. Politics of Developing Areas (3). Prerequisite: CPO 2002 or consent of instructor. 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 3103. Comparative Government and Politics: Western Europe (3). Prerequisite: CPO 2002 or consent of instructor. 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 consent of instructor. 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. 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 consent of instructor. The political systems of the Middle East and their social, economic, and cultural foundations.

CPO 3512. Political Development in East Asia (3). Prerequisites: CPO 2002 or instructor permission. This course provides a comprehensive look at the events and people shaping Asian-Pacific history since the mid-18th century, and relates them to the shape of current Pacific Basin relations. The western colonial impact on and the subsequent political development of eleven northeast and southeast Asian countries is covered including: China, Hong Kong, Japan, Korea, Taiwan, Singapore, the Philippines, Indonesia, Malaysia, Thailand and Vietnam.

CPO 3520. Emerging Democracies in Northeast Asia: Korea, Taiwan, Japan (3). Prerequisite: CPO 2002 or instructor permission. 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 consent of instructor. 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 consent of instructor. Japanese society and culture, political behavior, and political institutions. Also included are Japan's foreign relations with the United States, China, the former Soviet Union, and Southeast Asia.

CPO 3614. East European Politics (3). Prerequisite: CPO 2002 or consent of instructor. Examines the past and future of East Europe, focusing on the political, social, and economic legacies of the pre-World War I and inter-war periods, and the Stalin and post-Stalin periods. The collapse of communism and the democratization process are also examined.

CPO 3930r. Special Topics in Comparative Government and Politics (1-3). Prerequisites: CPO 2002 or consent of instructor. Topics vary with the instructor and semester. May be repeated to a maximum of nine (9) semester hours.

CPO 4057. Political Violence (3). Prerequisite: CPO 2002 or instructor permission. 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.

International Relations

INR 2002. Introduction to International Relations (3). 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. 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 3502. International Organization (3). Prerequisite: INR 2002 or consent of instructor. 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 consent of instructor. 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 3771. Domestic Politics and International Relations (3). Prerequisite: INR 2002 or permission of instructor. Course explores the influence of the political, economic, and social structures of nation-states on international relations, both in the area of military conflict and international economic relations.

INR 3933r. Special Topics in International Relations (1-3). Prerequisites: INR 2002 or consent of instructor. Topics vary with the instructor and semester. May be repeated to a maximum of nine (9) semester hours.

INR 4075. International Human Rights (3). Prerequisite: INR 2002 or permission of instructor. 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 permission of instructor. This course investigates various means of confronting massive human rights violations. It compares the recent phenomenon 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 consent of instructor. 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 consent of instructor. 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 4244. Studies in International Politics: Latin America (3). Prerequisite: INR 2002 or consent of instructor. 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 consent of instructor. 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 consent of instructor. 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 consent of instructor. 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). An introduction to the development of public policy in the United States. Covers main policy areas including housing, education, the economy, etc.

PUP 3323. Women and Politics (3). Prerequisite: POS 1041 or instructor permission. Course surveys the relations between gender and politics, governance, and public policy. Looks at the impact of government policies on socialization and how this socialization influences political participation. Topics include vote choice, women as candidates and in elective office, women as appointees, and the differential impact of public policies on women and men. Focuses as well on the racial and ethnic differences among women with respect to participation, vote choice, recruitment, and behavior once in office.

PUP 4024. Interest Groups, Social Movements, and Public Policy (3). Prerequisite: PUP 3002 or instructor permission. 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 4103. Politics of Taxing and Spending (3). Prerequisite: PUP 3002 or instructor permission. Examines public budgeting in the broadest sense of the term, through the study of taxing and spending policy in the U.S. Examines various models of fiscal choice that provide alternative perspectives for evaluating and explaining the spending and taxing choices of government.

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 4744. Public Policy and Business (3). Prerequisites: POS 1041; PUP 3002. A survey and analysis of public policies affecting business and industry.

PUP 4931r. Special Topics in Public Policy (1–3). Prerequisite: PUP 3002 or consent of instructor. 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 (9) semester hours.

Political Theory

PHM 3331r. Modern Political Thought (3). Major political ideas of the modern world emphasized through a study of selected political theories, attention to differentiating modern from ancient and medieval political thought. Also offered by the Department of Philosophy.

PHM 4340r. Contemporary Political Thought (3). Emphasis on a selected set of issues, trend, or school of thought in contemporary political philosophy. Also offered by the Department of Philosophy.

POT 3003. Introduction to Political Thought (3). Study of the writings of several major political theorists of the past that explore the major issues that define the field of political theory.

POT 3075. Culture and Politics (3). Values, beliefs, and symbols—in short, culture—underlie and energize the processes of politics and government. Covers the analysis of those social and cultural forces that often structure or determine political events.

POT 3102. Political Thought in Fiction (3). An inquiry into politics and political thought as they appear in fiction, including literature, cinema, theatre, and television.

POT 3502. Politics and Ethics (3). This course examines governing as the process of collective decision-making as a society's search for public ethics.

POT 4004. Values and Politics: Conflicting World Views and the Issues that Divide Us (3). Prerequisite: any one of: CPO 2002; POS 1041, 2001; POT 3003; PUP 3713; or instructor permission. Explores the historical evolution of three competing world views—theism, modernism and postmodernism—beginning in the Middle Ages. Course links this evolution in Western thought to shifting perspectives in

how Americans view their world, especially after 1960. The resulting conflict in world views has given rise to a new agenda of value-based issues that are presently eclipsing the traditional economic issues in public debate. Through class discussions and debates the following issues will be covered: abortion, euthanasia, religion in the schools, pornography, homosexuality, teenage pregnancy, minority rights, feminism, substance abuse, criminal justice, the environment, and personal privacy.

POT 4205. American Political Thought I (3). Course explores and analyzes the major thinkers of American political thought from its beginnings up to the Civil War period. Included topics are Puritanism, the American Revolution, the making and ratifying of the Constitution, Jeffersonian and Jacksonian democracy, the nature of the union, and the issue of slavery.

POT 4206. American Political Thought II (3). Course explores and analyzes the major thinkers and major themes in American political thought from the post Civil War period to the present. Included topics are social Darwinism, Populism, Progressivism, the New Deal and its critics, and post World War II political thought.

POT 4904r. Readings in Political Thought (3). Issues or topics in the general area of political theory determined through consultation between instructor and student. May be repeated to a maximum of nine (9) semester hours.

Others

POS 2001. Introduction to Political Science (3). An introduction to the discipline of political science involving an examination of its major sub-fields, concepts, and methodologies.

POS 3713. Understanding Political Science Research (3). Prerequisite: Any one of the following—POS 1041; CPO 2002; INR 2002; PUP 3002; POT 3003; or consent of instructor. 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 (1–3). Prerequisite: At least twelve (12) semester hours of political science or consent of instructor. 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 (6) semester hours.

POS 3949r. Cooperative Education Work Experience (0). (S/U grade only.) Prerequisite: POS 1041 or consent of instructor.

POS 4715. Politics and the Theory of Games (3). Prerequisites: One of the following—CPO 2002; INR 2002; POS 1041, and completion of the mathematics liberal studies requirements. Course discusses elementary theories of individual and group decision-making which 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 (12) semester hours of political science or consent of instructor. Involves some combination of research, reading, writing, field study, other scholarly activities, and evaluation. May be repeated to a maximum of twelve (12) 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 (9) semester hours.

POS 4941r. Internship (1–6). Prerequisites: Completion of at least sixty (60) semester hours, completion of twelve (12) semester hours in political science with a “C-” or better, completion of POS 3713 with a “C-” or better, a grade point average of 3.0 overall in political science courses; permission from the internship director. For complete details interested students should contact the department.

Graduate Courses

Comparative Politics

- CPO 5036. Politics of Developing Areas (3).
- 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 5557. Seminar in Comparative Government and Politics: Japan (3).
- CPO 5644. Russian Politics (3).
- CPO 5740. Comparative Political Economy (3).
- CPO 5934r. Selected Topics (3).
- CPO 6910. Advanced Research in Comparative Politics (3).

International Relations

- INR 5007. Seminar in International Relations: International Politics (3).
- INR 5014. Contexts and International Relations (3).
- INR 5036. International Political Economy (3).
- INR 5037. Development, Dependence, and Inequality (3).
- INR 5090. Rational Choice and International Relations (3).
- INR 5265. Russian Foreign Policy (3).
- INR 5275. Middle East Foreign Policy (3).
- INR 5315. Foreign Policy Analysis (3).
- INR 5934r. Selected Topics (3).
- INR 6910. Advanced Research in International Relations (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 5085. Governmental Relations for Business (3).
- POS 5096. Political Fundraising (3).
- POS 5127. State Government and Politics (3).
- POS 5203. Fundamentals of Political Management (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 5274. The Campaign Process (3).
- POS 5276. Political Communication and Message Development (3).
- POS 5277. Electoral Politics (3).
- POS 5287. Seminar in American Government and Public Policy: Judicial Politics (3).

POS 5335.	Political Research (3).
POS 5427.	Legislative Politics (3).
POS 5456.	Interest Groups and Policy (3).
POS 5465.	Lobbying (3).
POS 5698r.	Selected Topics (3).
POS 5724.	Economic Models of American Politics (3).
POS 5905.	Applied Program Planning (1). (S/U grade only.)
POS 5945.	Professional Practicum/Internship (12). (S/U grade only.)
POS 6910.	Advanced Research in American Government (3).

Methods of Political Analysis

POS 5726.	Social Choice Theory (3).
POS 5736.	Research Design (3).
POS 5737.	Political Science Data Analysis (3).
POS 5746.	Quantitative Analysis in Political Science (3).
POS 5747.	Advanced Quantitative Analysis in Political Science (3).
POS 5749.	Political Science Research Practicum (3).
POS 5750.	Game Theory (3).

Political Theory

POT 5934r.	Seminar in Political Thought:
5936r.	Selected Topics (3, 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 5009r.	Public Policy (3).
PUP 5207.	Environmental Politics and Policy (3).
PUP 5335.	Aging Politics and Policy (3).
PUP 6910.	Advanced Research in Public Policy (3).

Other

POS 5909r.	Directed Individual Study (1–3).
POS 5919r.	Supervised Research (1–5). (S/U grade only.)
POS 5940r.	Supervised Teaching (1–5). (S/U grade only.)
POS 5946r.	Teaching Political Science at the College Level (3).

POS 6930r.	Profession of Political Science (0–6). (S/U grade only.)
SYD 5145.	Population Policy (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

POPULATION:
see *Graduate Bulletin*

PORTUGUESE:
see **Modern Languages and Linguistics**

PRELAW EMPHASIS
see **Communication**

PREPROFESSIONAL AREAS:
see **College of Medicine**

**PSYCHOBIOLOGY/
NEUROSCIENCE:**
see *Graduate Bulletin*

Department of PSYCHOLOGY

COLLEGE OF ARTS AND SCIENCES

Chair: Janet Kistner; *Associate Chair:* Berler; *Professors:* Bailey, Baumeister, K. Berkley, Brigham, Carbonell, Charness, Contreras, Ericsson, Glendenning, Joiner, Kistner, Lang, Madsen, Megargee, Rashotte, Smith, Stephan, Torgesen, Wagner, Weaver; Zwaan; *Associate Professors:* Boroto, Hyson, J. Johnson, Kelley, B. Licht, M. Licht, Lonigan, Meyer, Schatschneider, Wang; *Assistant Professors:* Eckel, J. Kline, Loney, Plant, Scheffers, Taylor; *Research Associates in Psychology:* Berler, Henderson; *Associates in Psychology:* Akbar, Sachs-Ericsson, Warmath; *Assistants in Psychology:* K. Kline, Murphy, Peeler; *Administrative and Professional:* Bigbie, Donaldson, T. Johnson, Saunders; *Associated Faculty:* Davis, Ferris, Kerr, Patrick, C. Rashotte, Tenenbaum, Walker, Wells; *Professors Emeriti:* Baker, Hokanson, Kennedy, Kenshalo, Miller

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 or for advanced training in a professional school (e.g., law or medical school).

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.

Majors are required to take several laboratory courses and qualified students are encouraged to work in the department's research laboratories or to participate in research in educational and clinical settings. Students preparing for graduate school are strongly encouraged to consult early with the departmental advisement office about opportunities for intensive study in a specialty area while pursuing the major. The optional areas of emphasis include clinical psychology, cognitive psychology, psychobiology/neuroscience, social psychology, and performance management. For the student wishing to study abroad for a semester, courses in psychology may be available at the London Study Center and FSU—Panama.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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 col-

lege 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. One course (three [3] semester hours) in any level general biology course or BSC X200–209 or ZOO X010;
2. PSY X012;
3. One course (three [3] semester hours) from any level in statistics.

Note: the following course, though **not required for admission** into the upper division major, is **required for completion of the degree:**

- a) One course (three [3] semester hours) in any lower-level psychology class within the psychology inventory.

Admission Requirements

Due to limitations in the number of faculty and physical resources, admission to the undergraduate program for students who began college work in Fall 1992 or thereafter will be based on a minimum GPA and the successful completion of prerequisite course requirements. Students who began college work prior to Fall 1996 should check with the Psychology Department Advising Office for specific requirements that may apply to them. Admission for students who began college work Fall 1996 or thereafter will be based on the completion of the following requirements:

1. Completion of at least fifty-two (52) semester hours;
2. A minimum GPA of 2.6 in all college-level courses attempted;
3. Be in good academic standing with the University; and,
4. Completion with a “C–” or better of STA 2122 or equivalent, PSY 2012 or equivalent, and one biology course as specified in the common course prerequisites.

Course Requirements for a Major

Please review all college-wide degree requirements summarized in the “College of Arts and Sciences” chapter of this *General Bulletin*.

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 (9) 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–.” Additionally, no student who has accumulated more than four grades below “C–” (F, D–, D, D+, U) in psychology courses taken for credit at The Florida State University or elsewhere will be permitted to continue toward a degree with a major in psychology. Students may repeat no more than one psychology course with a grade less than “C–” to meet this requirement. For example, a student who accumulates four “D” or “F” grades in psychology courses, then receives one more “D” or “F” grade in a psychology course, may elect to repeat that course (or one of the other courses with a grade below “C–”) to improve the grade. If the student succeeds and receives a “C–” or better, he/she may continue in the major. If the student does not get a “C–” or better, he/she will be required to seek another major.

In an effort to maintain quality and to give students a direct way to affect the program, the Department of Psychology randomly selects 20% of its graduating seniors to participate in an interview. Each selected student is required to meet briefly with a member of the undergraduate training committee to answer a few questions about their experiences in and impressions of the department. For these students, completion of the interview is required for graduation.

Class Attendance

The Department of Psychology enforces a strict first-day attendance policy. Students missing the first day of any class will be dropped.

Required Upper-Level Courses in Psychology

Thirty-three (33) semester hours of upper-level psychology courses are required for the major. These hours must include:

1. EXP 3000 and 3000L;
2. **Two of** DEP 3103, SOP 3004, PPE 3004, CLP 4143;
3. **Two of** EXP 3422/3422L, EXP 3503/3503L, EXP 3202/3202L, PSB 3004/3004L;
4. PSY 4604;
5. **One of** PSB 2000, CBH 3304, EXP 3203/3203L, PSB 4240, or PSB 4854 (not required if EXP 3202/3202L or PSB 3004/3004L is taken)
6. Twelve (12) additional semester hours of psychology courses, including a minimum of three (3) semester hours at the 4000 level. A maximum of six (6) semester hours of directed individual studies may be applied to these twelve (12) elective semester hours in psychology.

Honors in the Major

The Department of Psychology 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 Program and Honor Societies” chapter of this *General Bulletin*.

Requirements for a Minor in Psychology

Twelve (12) semester hours of psychology, including PSY 2012, are required for a minor in psychology. Grades below “C–” will not be accepted for credit toward the minor. A minimum of six (6) of the required semester hours must be completed at The Florida State University. No courses used for satisfying liberal studies requirements may also count toward the minor. Exceptions: 1) transfer students with an approved AA from an State of Florida, Division of Colleges and Universities’ community college, and 2) students whose major does not require a minor.

Areas of Special Emphasis

Several areas of emphasis are available for students, especially those planning a graduate career in psychology or another field of science. The areas are clinical psychology, cognitive psychology, neuroscience, social psychology, and performance management. A recommended course listing in each area of emphasis is available from the psychology department’s undergraduate advising office. The recommended curriculum provides students with a strong background in scientific method and content pertinent to their areas of particular interest.

The Certificate in Performance Management is designed for undergraduate students who desire to prepare for a career in business management

or for graduate work in organizational behavior management, industrial/organizational psychology or related fields. The program offers students the opportunity to specialize in the application of behavior principles in the workplace or an organizational setting. Students are required to take four (4) courses and earn at least a grade of “B” in each. These courses include EAB 3703, EXP 3422, INP 3313 and INP 4314.

Bachelor’s Degree in Psychology at Panama City

Students may complete the requirements for the bachelor of science in psychology at the Panama City Campus. Students transferring to the Panama City Campus must have completed an approved A.A. degree (or equivalent). Students should refer to the common core requirements for this degree program.

Specific course rotation varies, based on the availability of instructional faculty and the needs of current students; no firm schedule of course offerings is possible. Within each calendar year (including the summer term), however, an attempt is made to offer both EXP 3000 and PSY 4604. In addition, at least one course from Area A below typically is available each year. Several courses from Area B usually are offered every year.

A master’s degree with a specialty in applied behavior analysis also is offered at the Panama City Campus.

Admission Requirements

For all students who first began college work during the Fall 1996 semester or thereafter, admission requirements for the Panama City Campus include:

1. An approved A.A. degree;
2. A minimum GPA of 2.6 in all attempted courses;
3. Completion with a “C–” or better of STA 2122 or equivalent, PSY 2012 or equivalent, and one biology course as specified in the common core prerequisites.

Note: the following course, though not required for admission into the upper division major, is required for completion of the degree:

- a) One course (three [3] semester hours) in any lower-level psychology class within the psychology inventory.

Required Upper-Level Courses for a Psychology Major

Thirty (30) semester hours of upper-level psychology courses and three (3) semester hours of PSY 2012 General Psychology are required for the major. Please note that PSY 2012 is not offered at the Panama City Campus.

- I. The following courses are required for all majors:

EXP 3000;

EXP 3000L (when offered); and
PSY 4604.

II. **AREA A:** Two of the following lecture/lab combinations are required:

EXP 3202, EXP 3202L (when offered);
EXP 3422, EXP 3422L (when offered);
EXP 3503, EXP 3503L (when offered);
PSB 3004, PSB 3004L (when offered).

III. **AREA B:** Two of the following courses are required:

CLP 3003, 3305; DEP 3305; EAB 3703;
EDP 3003; INP 3303; PPE 3004; SOP 3004.

IV. **Other Required Courses:** Twelve (12) additional semester hours of upper-level psychology courses.

For further information about admission, degree requirements, minor requirements, or the foreign language requirements for the bachelor's degree program, contact: *Undergraduate Advising Office, Department of Psychology, The Florida State University, Tallahassee, FL 32306-1270, (850) 644-4260.*

Definition of Prefixes

CBH	—	Comparative Psychology/Animal Behavior
CLP	—	Clinical Psychology
CYP	—	Community Psychology
DEP	—	Developmental Psychology
EAB	—	Experimental Analysis of Behavior
EDP	—	Educational Psychology
EXP	—	Experimental Psychology
INP	—	Industrial/Applied Psychology
ISC	—	Interdisciplinary Natural Science
PPE	—	Psychology of Personality
PSB	—	Psychobiology and Neuroscience
PSY	—	Psychology
SOP	—	Social Psychology
SPS	—	School Psychology

Undergraduate Courses

General Psychology

PSY 2012. General Psychology (3). An introduction to the field of psychology covering such topics as learning, perception, intelligence, personality, and social behavior.

PSY 2023. Careers in Psychology (1). (S/U grade only.) Prerequisite: PSY 2012. This course is intended for psychology majors who are early in their undergraduate careers. Discussions cover options in psychology and related fields for those students planning to enter the job market or graduate/professional school upon graduation. Students will learn how to best prepare themselves to compete for these options.

EXP 3000. Approaches to the Study of Behavior (3). Prerequisites: PSY 2012; STA 2122 or equivalent. Corequisite: EXP 3000L. Introduction to philosophical and methodological issues in the empirical study of behavior.

EXP 3000L. Approaches to the Study of Behavior Laboratory (1). Prerequisite: STA 2122 or equivalent. Corequisite: EXP 3000. Introduction to the basic logic of experimentation in psychology by running simple experiments, analyzing the data, and interpreting the results. Simple techniques and concepts in data analysis and interpretation will be stressed.

PSY 4604. History and Systems of Psychology (3). Prerequisite: EXP 3000, 3000L; PSY 2012; junior or senior standing; or consent of instructor. Covers the philosophical and scientific antecedents of modern psychology and the history of psychology as an independent scientific discipline.

Experimental—Psychobiology/Neuroscience

CBH 4304. Behavioral Genetics (3). Prerequisites: EXP 3000; PSY 2012; introductory statistics course. 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 3202. Sensation and Perception (3). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3202L. The role of the senses in behavior and the perceptual organization of sensory information.

EXP 3202L. Sensation and Perception Laboratory (1). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3202.

EXP 3203. Animal Sensory Processes (3). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3203L. Animal psychophysics and electrophysiology in the study of animal senses.

EXP 3203L. Animal Sensory Processes Laboratory (1). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3203.

EXP 3422. Conditioning and Learning (3). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3422L. How experience affects behavior and physiological functioning of animals and humans.

EXP 3422L. Conditioning and Learning Laboratory (1). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3422.

PSB 2000. Introduction to Brain and Behavior (3). A study of the basic principles of brain functions and how they relate to animal and human behavior. (Cannot be taken after PSB 3004.)

PSB 3004. Physiological Psychology (3). Prerequisites: PSY 2012; three (3) hours in biology; or permission of instructor. Corequisite: PSB 3004L. Current problems, theories, and techniques in physiological psychology with emphasis on central nervous system mechanisms.

PSB 3004L. Physiological Psychology Laboratory (1). Corequisite: PSB 3004.

PSB 4240. Biological Basis of Brain Dysfunction (3). Prerequisites: Junior or senior standing; PSB 2000 or 3004 or an introductory course in biology. This course will examine the biology of brain dysfunction in schizophrenia, obsessive compulsive disorder, mania, depression, drug abuse, Alzheimer's disease, Parkinson's disease, Huntington's disease, and Tourette's syndrome. These pathological processes will be explored from both biological and psychological perspectives.

PSB 4461. Hormones and Behavior (3). Prerequisites: PSY 2012; PSB 2000 or 3004, or three (3) semester hours in biology. 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). 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 4854. Biopsychology of Sexual Behavior (3). Prerequisites: PSY 2012; PSB 2000 or 3004, or three (3) semester hours in biology. A study of 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 3404. Human Memory and Learning (3). Prerequisites: EXP 3000, 3000L. Course introduces issues related to human memory and learning. Theories of memory, including memory systems, capacity and duration of memory, and basic memorial processes. Applied issues include disorders of memory (e.g., Alzheimer's disease), repressed memories and memory improvement.

EXP 3503. Cognitive Psychology (3). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3503L. Contemporary approaches to human learning, memory, and higher mental processes.

EXP 3503L. Cognitive Psychology Laboratory (1). Prerequisites: EXP 3000, 3000L. Corequisite: EXP 3503.

EXP 4640. Psychology of Language (3). Prerequisites: psychology majors—EXP 3000; other majors—permission of instructor. This course will focus on the mental processes involved in language use (e.g., speech, comprehension, conversation, and writing). EXP 3000 is required for psychology majors. Majors from relevant areas such as language, communications, philosophy, computer science and education should contact the instructor for permission to take the course.

Clinical—Personality

CLP 3003. Psychology of Adjustment (3). Prerequisite: PSY 2012. 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. A survey of the theory, research, and treatment procedures in the clinical process.

CLP 4143. Abnormal Psychology (3). Prerequisite: PSY 2012; junior or senior standing. Causes of personality disorganization, diagnosis and treatment of mental illness, developments in experimental psychopathology.

CLP 4182. Addictive Behaviors (3). Prerequisites: Junior or Senior standing; 3.0 GPA or permission of instructor. 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 well as relevant public policy is the focus.

CLP 4343r. Current Issues in Clinical Psychology (3). Prerequisites: PSY 2012; junior or senior standing. A study of current issues in clinical psychology. May be repeated to a maximum of six (6) semester hours.

CLP 4950. Abnormal Psychology Field Experience (1). (S/U grade only.) Prerequisites: CLP 4143, permission of instructor.

PPE 3004. Psychology of Personality (3). Prerequisite: PSY 2012. An introduction to methods, theory, and research in personality.

PSY 3820. 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.

PSY 4303. Theory, Application, and Evaluation of Tests (3). Prerequisites: EXP 3000, 3000L. Basic test and measurement theory essential in the construction, appropriate use, and evaluation of achievement, aptitude, intelligence, interest, and personality tests.

Life-Span Development

DEP 3103. Child Psychology (3). Prerequisite: PSY 2012. An approach to the study of children.

DEP 3305. Psychology of Adolescent Development (3). Prerequisite: PSY 2012. Recent research dealing with adolescents. Emphasis is placed on the influence of growth and on the role of cultural pressures on behavior.

DEP 4204. 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.

DEP 4404. Psychology of Adult Development and Aging (3). Prerequisite: PSY 2012. 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. Prior introductory courses in personality, social, cognition, and/or sensation-perception are recommended.

EDP 3003. Educational Psychology (3). Prerequisite: PSY 2012. The application of psychology to the problems of education.

Social

SOP 3004. Social Psychology (3). Prerequisite: PSY 2012. Review of the theories of interpersonal behavior and group dynamics.

SOP 3742. Psychology of Women (3). Prerequisite: PSY 2012. Systematic study of research and theory including psychological differences and similarities between sexes.

SOP 3751. Psychology and the Law (3). Prerequisite: PSY 2012. 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. A critical examination of the psychocultural forces which shape and determine the unique behavior of African Americans.

SOP 4214. Experimental Social Psychology (3). Prerequisites: PSY 2012, SOP 3004. 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: EXP 3000, 3000L; PSY 2012; SOP 3004. This course explores the nature of prejudice and stereotyping in our society using a social psychological perspective.

Behavioral-Performance Management

EAB 3703. Applied Behavior Analysis (3). Prerequisite: PSY 2012. This course introduces the basic principles of behavior and exposes students to settings where techniques based on learning theory can be used therapeutically.

INP 3303. Business Psychology (3). Prerequisite: PSY 2012. Vocational selection, psychological principles of supervision and leadership, emotional problems of employees, selling, and advertising.

INP 3313. Behavior Analysis in Business and Industry (3). Prerequisites: EAB 3703; EXP 3422, 3422L; PSY 2012. Behavior principles as they are applied in business, industry, and government.

INP 4314. Advanced Topics in Performance Management (4). Prerequisite: INP 3313 and permission of instructor. Implementation and analysis of performance management principles via a project carried out in a business setting; motivation, compensation, and systems issues in performance technology.

Multiple Areas

ISC 3076. Science, Technology, and Society (3). Science is considered as an enterprise in modern society that produces technological advances and new perspectives on reality. Interrelations among science, technology, and society are examined. Enrollment is open to students who have attained at least junior standing or by permission of instructor.

PSY 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

PSY 4039r. Honors Work (1–6). May be repeated to a maximum of nine (9) hours.

PSY 4911r–4914r. Directed Individual Study (one to three [1–3] hours each.) (S/U grade only.) Prerequisites: Junior or Senior standing and consent of instructor. Study on a selected topic as designated by the student and the directing professor. Each course may be repeated to a maximum of three (3) semester hours. Only six (6) semester hours may be counted toward the major. These total credits must be reduced by the comparable number of credits taken for PSY 4920r, such that a maximum of twelve (12) credits of PSY 4911r–4914r in combination with PSY 4920r may be taken. A total of six (6) credits of PSY 4911r–4914r in combination with PSY 4920r may be counted toward the major.

PSY 4920r. Research Topics (1–3). (S/U grade only.) Prerequisites: Junior or senior standing, consent of instructor. Participation in a group research project on a selected topic as designated by the directing professor. May be repeated to a maximum of twelve (12) semester hours; only six (6) semester hours may be counted toward the major. These total credits must be reduced by the comparable number of credits taken for PSY 4911r–4914r such that a maximum of twelve (12) credits of PSY 4920r in combination with PSY 4911r–4914r may be taken. A total of six (6) credits of PSY 4920r in combination with PSY 4911r–4914r may be counted toward the major.

PSY 4930r. Special Topics in Psychology (3). May be repeated to a maximum of nine (9) semester hours. A maximum of two (2) special topics courses may be taken in the same semester.

PSY 4970r. Honors Seminar (1). (S/U grade only.) Prerequisite: Acceptance in the honors in psychology program. 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. Forum for informal discussion of project development, research design, data collection and analyses, and thesis presentation. May be repeated to a maximum of four (4) semester hours; only two (2) semester hours may be counted toward the major.

SCE 4939r. Seminar in Contemporary Science, Mathematics, and Science Education (1). For description, see the interdisciplinary science courses listed in the "College of Arts and Sciences" chapter of this *General Bulletin*.

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 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 5780. Ethical and Professional Issues in Applied Behavior Analysis (3).

EAB 5796. Research Methods in Applied Behavior Analysis (3).

EAB 5940, 5941, 5942. Applied Behavioral Analysis Practicum (3). (S/U grade only.)

EAB 6769r. Seminar on Skinner's Theory of Behaviorism (3).

Clinical—Personality

CLP 5195. Theories of Psychotherapy (3).

CLP 5196. Techniques of Behavioral Change (3).

CLP 5375. Concepts and Methods of Clinical Psychology (3).

CLP 5475. Child Psychopathology and Intervention (3).

CLP 5624. Ethics and Fundamentals of Professional Practice (3).

CLP 5932. Law and Ethics (3).

CLP 5941r, 5942r. Clinical Practicum: Psychological Evaluation [one to three (1–3) hours each]. (S/U grade only.)

CLP 6169. Abnormal Psychology for Graduate Students (3).

CLP 6349r. Seminar in Clinical Theory (3).

CLP 6920r. Current Issues in Clinical Psychology (1). (S/U grade only.)

CLP 6944r, 6947r. Clinical Practicum: Change of Behavior [one to three (1–3) hours each]. (S/U grade only.)

PPE 5055. Personality Theory (3).

PSY 5325. Assessment I (3).

PSY 5326. Assessment II (3).

PSY 6940r. Psychological Clerkship (3–6). (S/U grade only.)

PSY 6948r. Psychology Internship (1–6). (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).

Psychobiology/Neuroscience

EXP 5406. Conditioning and Learning (3).

EXP 5717. Animal Psychophysics (3).

PSB 5056. Biological Psychology (3).

PSB 5057. Neuroscience Methods: Molecules to Behavior (2). (S/U grade only.)

PSB 5077. Responsible Conduct of Research (2).

PSB 5216. Anatomy of the Nervous System (3).

PSB 5218L. Neuroanatomy Laboratory (1).

PSB 5231L. Comparative Neuroanatomy Laboratory (1).

PSB 5341. Systems and Behavioral Neuroscience (4).

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

SOP 5053. Social Psychology (3).

SOP 6848. Seminar in Psychology and Law (3).

SOP 6920r. Current Issues in Social Psychology (1). (S/U grade only.)

SOP 6939r. Seminar in Social Psychology (3).

Multiple Area Courses

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 5973r. Thesis (1–6). (S/U grade only.)

PSY 6656r. Preliminary Examination Preparation (1–9). (S/U grade only.)

PSY 6919r. Seminar in Current Research Topics (1–3).

For listings relating to graduate course work 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

COLLEGE OF SOCIAL SCIENCES

Director: William Earle Klay; *Professors:* Askew, Berry, Bowman, Bradley, Chackerian, deHaven-Smith, Feiock, Guy, Klay, Reid; *Associate Professors:* Brower, Coursey; *Affiliate Faculty:* Imershein; *Visiting Professors and Adjunct Faculty:* Alam, Crispo, Croushorn, Easterling, French, Germany-Griggs, Greenfield, Jurand, Lynch, Parry; *Professors Emeriti:* Grizzle, Hartsfield, Page, Sherwood, Waldbly

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). For more information on the ISS, please contact the College of Social Sciences, Office of the Dean.

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, that are passed with a grade of "C" or better. Courses should be approved by the school in consultation with the student. Topics in regularly scheduled undergraduate classes include:

Public administration in American society

Budgets and finances in managing public affairs

American public service

Administrative law

Local government administration

American legal systems

Selected topics in public administration

Directed individual study (faculty approval required)

One of the following Department of Political Science courses may be substituted for one of the above: state politics, urban politics, Florida government and the American presidency.

The school, upon application from the student, recognizes successful completion of requirements for the undergraduate minor with a certificate that indicates the student's understanding of public administration, including the role of government agencies in society and administrative processes. In order to qualify for the certificate, the student must pass four courses, totaling twelve (12) semester hours, with a grade of "C" or better. Courses must be approved by the school in consultation with the student. If approved by the director of undergraduate studies, some transfer credits may be accepted. The certificate credential is not intended as a diploma or degree.

The application procedure requires that students notify the school of their intention to complete a minor and that they wish to receive a certificate upon successful completion of the required twelve (12) semester hours. Students may do this prior to or following completion of the minor. It is recommended that the student check with the director of undergraduate studies to be sure courses taken will apply to the certificate.

Both degree-seeking and special students are eligible for the undergraduate certificate program.

Graduate Programs

Graduate study provides professional preparation for careers in government, higher education, private consulting, and in non-profit 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 and nonprofit 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 dual degrees with the College of Law (MPA/JD), the School of Social Work (MPA/MSW), the School of Criminology and Criminal Justice (MPA/MSC), the Department of Urban and Regional Planning (MPA/MSP), and the interdisciplinary program in the College of Social Sciences in Health Policy Research (MPA/MS). 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 adds a dimension to career competencies, enhancing the student's career mobility, flexibility, and opportunities.

Additional information (such as handbooks and syllabi) is available on the Askew school's home page: <http://askew.fsu.edu>.

Definition of Prefixes

PAD — Public Administration and Policy

POS — Political Science

Undergraduate Courses

PAD 3003. Public Administration in American Society (3). A general introductory course in public administration. Management of large-scale government bureaucracies including organization, career systems, and financing. The role of bureaucracies in modern society in the formulation and implementation of public policy.

PAD 3931r. Selected Topics in Public Administration (1–6). Varying topics. Contact school. May be repeated to a maximum of nine (9) semester hours.

PAD 3941r. Public Service Internship (3–6). (S/U grade only.) Prerequisite: PAD 3003 or equivalent. 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 (6) semester hours.

PAD 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

PAD 4223. Budgets and Finances in Managing Public Affairs (3). Concepts and practices in budgeting and financial processes such as planning, goal setting, and implementation.

PAD 4332. Strategic Leadership for Communities (3). This course will teach the principles and skills of strategically managing agencies and communities. Strategic planning, community visioning, and organizational assessments will be covered. Managerial leadership roles and responsibilities in organizing community planning and change also will be covered.

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 4393. 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.

PAD 4414. American Public Service (3). 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 4456. Quality Management Systems (3). Addresses the theory, design, and implementation of quality management systems in public organizations compared to that in other sectors of the economy. Examines the need for and origins of quality management philosophies, techniques, transition strategies, case studies, and future scenarios. May be repeated to a maximum of six (6) semester hours.

PAD 4603. Administrative Law (3). Study of the constitutions, statutes, executive orders, and procedures that control the administrative authorities of government. (Also offered by the Department of Political Science.)

PAD 4606. American Legal Systems (3). This course is an overview of American legal systems. Topics include the interrelationships between law and social sciences, the nature of legal systems, how to read and analyze a court case, interpret statutes, and analysis of important legal controversies.

PAD 4803. Local Government Administration (3). An introduction to administrative problems and processes in municipal, county, and special district governments.

PAD 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

PAD 4936r. Special Topics in Public Administration (3). Topics will vary. May be repeated to a maximum of nine (9) semester hours.

POS 4413. The American Presidency (3). 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. Ethics and Public Administration (3).
 PAD 5050. The Profession of Public Administration (3).
 PAD 5106. Public Organizations (3).
 PAD 5227. Managing Public Financial Resources (3).
 PAD 5275. Political Economy of Public Administration (3).
 PAD 5327. Public Program Evaluation (3).
 PAD 5335. Strategic Leadership for Communities (3).
 PAD 5352. Environmental Policy and Management (3).
 PAD 5397. Fundamentals of Emergency Management (3).
 PAD 5398. Emergency Management Programs, Planning, and Policy (3).
 PAD 5417. Human Resource Management (3).
 PAD 5419. Issues in Human Resource Management (3).
 PAD 5427. Public Labor Relations (3).
 PAD 5457. Quality Management Systems (3).

- PAD 5605. Administrative Law (3).
 PAD 5700. Research Design (3).
 PAD 5700L. Research Design Laboratory (0). (S/U grade only.)
 PAD 5701. Quantitative Analysis in Public Administration (3).
 PAD 5701L. Quantitative Analysis in Public Administration Laboratory (0). (S/U grade only.)
 PAD 5826. Intergovernmental Management and Relations (3).
 PAD 5846. Health Policy and Public Administration (3).
 PAD 5907r. Directed Individual Study (1–3). (S/U grade only.)
 PAD 5915r. Supervised Research (1–5). (S/U grade only.)
 PAD 5946. Public Service Internship (3). (S/U grade only.)
 PAD 5948r. Supervised Teaching (1–5). (S/U grade only.)
 PAD 6054. Intellectual History and Future of Public Administration (3).
 PAD 6075. Advanced Administrative Theory (3).
 PAD 6102. Administrative Behavior in Public Organizations (3).
 PAD 6103. Cultural Analysis and Organizations (3).
 PAD 6107. Seminar: Public Organizational Development (3).
 PAD 6108. Institutions, Policy, and Management (3).
 PAD 6109. Institutions and Society (3).
 PAD 6115. The Executive (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 6418. Seminar: Human Resource Management (3).
 PAD 6705. Analytic Techniques for Public Administrators (3).
 PAD 6707. Logics of Inquiry (3).
 PAD 6836. Comparative/Development Administration (3).
 PAD 6908. Action Report (3).
 PAD 6930r. Professional Topics in Public Administration (0). (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*.

**PUBLIC RELATIONS:
see Communication**

**PURCHASING/MATERIALS
MANAGEMENT:
see Management Information
Systems**

**RADIO/TELEVISION:
see Communication**

**READING EDUCATION AND
LANGUAGE ARTS:
see Elementary and Early
Childhood Education**

**REAL ESTATE:
see Risk Management/Insurance
and Real Estate and Program in
Business Law**

**REHABILITATION
SERVICES:
see Special Education**

Department of RELIGION

COLLEGE OF ARTS AND SCIENCES

Chair: John Kelsay; *Professors:* Corrigan, Kelsay, Sandon, Twiss; *Associate Professors:* Erndl, Levenson; *Assistant Professors:* Burkes, Cuevas, Kalbian, Kangas, Kavka, Koehlinger; *Professors Emeriti:* Carey, Jones, Moore, Rubenstein, Wellborn

Since its founding in 1965, the Department of Religion at The Florida State University has been a leader among America's public institutions in the academic study of religion. The department offers instruction in the religious traditions of the world and the religious dimensions of human life. While covering a wide range of religious phenomena and the interaction of religion with other cultural forms, there are particular concentrations

in the religions of western antiquity, religions of Asia, religion in America, and religion, ethics and philosophy.

Located in the humanities area of the College of Arts and Sciences, the department participates actively in the University's liberal studies program. A number of religion courses are approved for humanities credit in liberal studies and for literature and multicultural 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, as the study of religion involves exposure to a wide

variety of different cultural expressions and methods of analysis. While some religion majors and minors go on to graduate work and positions in the various areas of religion and religious studies, the issues and methods encountered are applicable to a number of different professional fields and interests.

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*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

No statewide common course prerequisites have been identified for this program.

Though no statewide prerequisites are required, faculty in this program recommend that students take several courses with REL prefix at the lower level.

Degree in Religion

Major

To complete a bachelor of arts (BA) degree with a major in religion, a student must take (in addition to other college requirements) thirty (30) semester hours of religion courses. For purposes of the major requirement, religion courses are divided into the following three (3) areas:

Western: REL 2121, 2210, 2243, 3128, 3146, 3194, 3280, 3293r, 3363, 3370, 3430, 3505, 3600, 4203r, 4290r, 4320r, 4323, 4324, 4511, 4541, 4564, 4611, 4613, 4671, 4914r;

Asian: REL 2315, 2350, 3316, 3335, 3337, 3340, 4333, 4908r, 4912r;

Issues and Approaches: REL 3142, 3145, 3170, 3177r, 3191; PHI 3700.

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 for a current list of all courses and their areas.

Majors will choose either the extensive option (two [2] courses from each of the three areas, and electives) or the intensive option (four [4] courses from one area and one [1] from each of the other two, and electives). At least six (6) courses must be at the 3000/4000 level, of which two (2) must be at the 4000 level. Majors must take at least one religion course with a seminar format (either a course listed as a seminar or one approved as such by the departmental undergraduate advisor). In some cases, with the approval of the departmental undergraduate advisor, up to two courses from other departments may count toward a religion major (PHI 3700 counts as a course offered by the Department of Religion). Courses in which the student receives a grade below "C-" will not be counted toward the major.

Minor

Religion majors must complete twelve (12) semester hours in an approved departmental field.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Joint Major in Religion and Classics

The departments of Religion and Classical Languages, Literature, and Civilization 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 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, Humanities, and Women's Studies. In addition, students of religion will find related courses in other departments, including Anthropology; Art History; Classical Languages, Literature, and Civilization; 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 wishing to minor in religion must take a minimum of twelve (12) semester hours of credit. At least six (6) 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. As they develop their minor, students should consult with the undergraduate advisor in religion.

Definition of Prefixes

HBR — Hebrew (Modern)
PHI — Philosophy
REL — Religion
SAL — Sanskrit

Undergraduate Courses

HBR 1102, 1103. Beginning Hebrew I, II (4, 4). 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 2202. Intermediate Hebrew (4). Translation and commentary on selected Hebrew readings. Meets the foreign language requirement for the BA degree. No language laboratory required.

REL 1300. Introduction to World Religions (3). A survey of 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). An examination of the scope and nature of religious movements and institutions in the United States.

REL 2210. Introduction to the Old Testament (3). The history, religious thought, and social institutions of ancient Israel as reflected primarily in its literature.

REL 2243. Introduction to the New Testament (3). An introduction to the writings of the New Testament in the context of the historical development of early Christianity.

REL 2315. Religions of South Asia (3). 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). 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 3128r. Topics in Religion in the Americas (3). Prerequisite: REL 2121 or instructor's consent. May be repeated to a maximum of six (6) semester hours.

REL 3142. Religion, the Self, and Society (3). Interpretation of religious phenomena by the major social theorists of modern times. The course is divided into two parts: 1) the psychology of religion and 2) the sociology of religion.

REL 3145. Gender and Religion (3). A consideration of the impact of gender on religion. Includes cross-cultural studies, theoretical works, and gender issues within religious traditions.

REL 3146. Gender and the Bible (3). This course will examine female figures and images of the Bible, while surveying the various approaches to feminist analysis. Special attention will be given to the production of knowledge about gender in biblical history.

REL 3170. Religious Ethics and Moral Problems (3). A discussion of contemporary moral problems such as deception, sexual activities and relations, and capital punishment from the standpoints of major religious traditions.

REL 3177r. Topics in Ethics (3). Consideration of themes and problems in modern ethics. May be repeated to a maximum of nine (9) semester hours.

REL 3191. Death and Dying (3). Practical and theoretical perspectives on the critical dimensions of death as it is experienced in modern society.

REL 3194. The Holocaust (3). An examination of the origins, the process, and the consequences of the destruction of the European Jews during World War II.

REL 3280. Biblical Archaeology (3). Course introduces archaeological methods and excavation results in the region of Syro-Palestine. Archaeological data is viewed alongside narrative reports in biblical literature.

REL 3293r. Topics in Biblical Studies (3). Prerequisite: REL 2210, 2243 or instructor's permission. 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 (9) semester hours.

REL 3335r. Hindu Texts and Contexts (3). A study of selected Hindu scriptures, their commentarial traditions, and their religious and cultural contexts. Topics vary; may include devotional (bhakti) poetry, Ramayana, Bhagavad Gita, etc. May be repeated to a maximum of nine (9) semester hours.

REL 3337. Goddess, Women, and Power in Hinduism (3). 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). A survey of the Buddhist tradition from its beginnings through the modern period. Some attention to its contemporary forms.

REL 3358. Tibetan and Himalayan Religions (3). This course is a 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. The Islamic Tradition (3). An introduction to the basic terms and history of the religious tradition of Islam.

REL 3375. Afro-Caribbean Religions (3). A survey of the roots and current manifestations of the religions of the African diaspora, with a focus upon both the Caribbean and Latin America. Special attention will be given to Vodou and Santeria.

REL 3430. Issues and Thinkers in Western Religious Thought (3). 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 3505. The Christian Tradition (3). The major beliefs, practices, and institutional forms of Christianity in historical perspective.

REL 3600. The Jewish Tradition (3). A survey of the varieties of institutional structures, beliefs, and religious practices of post-biblical Judaism in their historical contexts.

PHI 3700. Philosophy of Religion (3). Philosophical analysis of major problems in religion: religious language, faith, revelation, existence and nature of God, immortality. Also offered by the Department of Philosophy.

REL 3936r. Special Topics in Religion (1–3). May be repeated to a maximum of nine (9) semester hours.

REL 4190r. Undergraduate Religion and Culture Seminar (3). Problems and issues in religion and culture. Topics vary. Intended for advanced undergraduate students. Permission of the instructor required. May be repeated to a maximum of nine (9) semester hours.

REL 4203r. Readings in Classical Hebrew Texts (1–3). Prerequisite: HEB 2230 or instructor consent. Intensive work on specific religious texts in classical Hebrew (ancient or medieval). Choice of texts will vary. May be repeated to a maximum of twelve (12) semester hours.

REL 4290r. Undergraduate Biblical Studies Seminar (3). Advanced work in biblical studies for undergraduates. Topics vary. Permission of the instructor required. May be repeated to a maximum of nine (9) semester hours.

REL 4304r. Undergraduate History of Religions Seminar (3). Problems and issues in the history of religions. Topics vary. Intended for advanced undergraduate students. Permission of the instructor is required. May be repeated to a maximum of nine (9) semester hours.

REL 4321. Religions of the Graeco-Roman World (3). The religions of the Graeco-Roman world with special emphasis on traditional religious forms, mystery religions, and developments in philosophy. Some attention will be given to Judaism, Christianity, and Gnosticism in their broader social, cultural, and historical contexts.

REL 4323. Religions of the Ancient Near East (3). The religious traditions of the ancient Near East, including Egypt, Mesopotamia, and Syria/Palestine, from earliest historical times to the onset of the Hellenistic age.

REL 4324r. Tutorial in Greek Religious Texts (1–3). 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 (12) semester hours.

REL 4333. Modern Hinduism (3). 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 religions literature including Buddhist texts on philosophy, ritual and history. May be repeated to a maximum of twelve (12) 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 (12) semester hours as topics vary.

REL 4491r. Undergraduate Religious Thought Seminar (3). Topics vary. Intended for advanced undergraduate students. Permission of the instructor required. May be repeated to a maximum of nine (9) semester hours.

REL 4511. Christianity in Late Antiquity (3). Christian thought, institutions, lifestyles, and literature in their social, cultural, and historical contexts from the time of Jesus to the early Middle Ages.

REL 4541. Modern Protestantism (3). The development of the Protestant traditions in the modern era. The course will emphasize the innovative responses made in Protestant thought and practice to the key developments in culture and society.

REL 4564. Modern Roman Catholicism (3). The Catholic Church from the Council of Trent to the present day; special consideration given to Vatican II, current problems, and leading thinkers.

REL 4613. Modern Judaism (3). 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 4617. Judaism in the Graeco-Roman World (3). A 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 4671. Gender and Judaism (3). Examines the roles of men and women in various Jewish communities and the responses of contemporary Jews to feminist initiatives and critiques.

REL 4905r. Directed Individual Study (1–3). Supervised reading and research on selected topics. May be repeated to a maximum of nine (9) semester hours.

REL 4908r. Tutorial in Pali (1–3). A study of the grammar, vocabulary and style of the Pali canon to better understand both Buddhist philosophical concepts and the culture of ancient Buddhist India. May be repeated to a maximum of twelve (12) semester hours.

REL 4912r. Tutorial in Sanskrit Texts (1–3). Prerequisite: SAL 4101 or its equivalent. Readings in Sanskrit of selected religious texts. Topics will vary. May be repeated to a maximum of twelve (12) semester hours.

REL 4914r. Tutorial in Latin Religious Texts (1–3). Readings in Latin of selected religious texts. Topics will vary. A basic knowledge of Latin grammar is presumed. May be repeated to a maximum of twelve (12) semester hours.

REL 4932r. Honors Work (3). 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 (9) semester hours.

SAL 4100, 4101. Elementary Sanskrit I, II (3, 3). Introduction to the morphology and syntax of Sanskrit and introduction to Sanskrit texts.

Graduate Courses

REL 5035. Seminar: Introduction to the Study of Religion (3).

REL 5195r. Seminar: Religion and Culture (3).

REL 5204r. Readings in Classical Hebrew Texts (1–3).

REL 5292r. Tutorial in Near Eastern Languages and Literature (1–3).

REL 5297r. Seminar: Biblical Studies (3).

REL 5305r. Seminar: History of Religions (3).

REL 5326. Religions of the Ancient Near East (3).

REL 5328r. Tutorial in Greek Religious Texts (1–3).

REL 5329. Religions of the Graeco-Roman World (3).

REL 5339. Modern Hinduism (3).

REL 5354. Special Topics in Asian Religions (3).

REL 5486. Religious Thought in America (3).

REL 5497r. Seminar: Religious Thought (3).

REL 5515. Christianity in Late Antiquity (3).

REL 5535. Christianity in Early Modern Europe (3).

REL 5545. Modern Protestantism (3).

REL 5565. Modern Roman Catholicism (3).

REL 5612. Judaism in the Graeco-Roman World (3).

REL 5616. Modern Judaism (3).

REL 5672. Gender and Judaism (3).

REL 5906r. Directed Individual Study (1–3).

REL 5910r. Tutorial in Pali (1–3).

REL 5911r. Supervised Research (1–3). (S/U grade only.)

REL 5915r. Tutorial in Sanskrit Texts (1–3).

REL 5916r. Tutorial in Latin Religious Texts (1–3).

REL 5937r. Special Topics in Religion (3).

REL 5940. Supervised Teaching (3). (S/U grade only.)

REL 6176r. Seminar: Ethics and Politics (3).

REL 6298r. Seminar: Scriptures and Interpretation (3).

REL 6498r. Seminar: Religious Thought (3).

REL 6596r. Seminar: Religious Movements and Institutions (3).

SAL 5230. Intermediate Readings in Sanskrit I, II (3, 3).

For listings relating to graduate course work 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**

**RHETORIC:
see English**

Department of RISK MANAGEMENT/ INSURANCE AND REAL ESTATE AND PROGRAM IN BUSINESS LAW

COLLEGE OF BUSINESS

Chair: Dean H. Gatzlaff; *Professors:* Boggs, Carson, Corbett, Diskin, Eastman, Gatzlaff, Maroney, Marshall, Sirmans, Stauber, Vickory; *Assistant Professors:* Cole, Dumm, McCullough; *Assistant in Business Law and Real Estate:* Woodyard; *Payne H. and Charlotte Hodges Midyette Eminent Scholar in Risk Management and Insurance:* Carson; *Robert L. Atkins Memorial Professor in Risk Management and Insurance:* Eastman; *Kenneth G. Bacheller Professor of Real Estate:* Sirmans; *Mark C. Bane Professor in Business Administration:* Gatzlaff; *Kathryn Magee Kip Professor:* Maroney; *Independent Life & Accident Insurance Company Professor:* Corbett; *State Farm Insurance Professor:* Marshall

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 Business Law curriculum is a nondegree, service program serving all students in the College of Business. 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 a more comprehensive knowledge of business law in relation to such fields as accounting, finance, insurance, and real estate.

For information on graduate programs, refer to the *Graduate Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this department's University degree programs. Specific prerequisites are required for admission into these upper-division programs and **must** be completed by the student at either a community college or a state univer-

sity prior to being admitted to these programs. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into these programs.**

The following lists the common prerequisites or their substitutions necessary for admission into these upper-division degree programs:

Risk Management/Insurance

1. ACG X021 or ACG X001 and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100.

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Real Estate

1. ACG X021 or ACG X001 and and ACG X011;
2. ACG X071;
3. CGS X100*;
4. ECO X013;
5. ECO X023;
6. MAC X233 or MAC X230;
7. STA X023 or QMB X100 (students at Florida State University may substitute STA X014).

Note: courses marked with an asterisk (*) have at least one acceptable substitute. Contact the department for details.

Degree Programs

Risk Management/Insurance Program

The objective of the curriculum in risk management/insurance is to acquaint the student with the effects of risk and uncertainty upon business and society. The analysis of risk and the methods of meeting risk, as necessary tools of business management, are placed in proper perspective as parts of a broad business curriculum.

Students may coordinate their academic programs with the licensing examinations of the state of Florida and with the professional examinations of the Chartered Property and Casualty Underwriters (CPCU) program, the Chartered Life Underwriters (CLU) program, 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 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; and 5) the major area requirements for risk management/insurance majors.

Note: to be eligible to pursue a risk management/insurance major, students must meet the admission requirements of 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 five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All risk management/insurance majors must complete five courses as follows. Each course selected must be completed with a grade of "C-" or better.

REE	3043	Real Estate (3).
RMI	3011	Risk Management and Insurance (3).

Plus three (3) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
QMB	3200	Quantitative Methods for Business Decisions (3).

Major Area Requirements

All risk management/insurance majors must complete six (6) 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 (2) electives from the following list of courses:

RMI	4135	Employee Benefit Plans (3).
RMI	4295	Advanced Property and Casualty Insurance (3).
RMI	4420	Legal and Political Aspects of Insurance (3).

Students also should consider completing RMI 4308r, Seminar in Risk and Its Control (3); topics in this course vary by term. Selection of electives should be made after consultation with a faculty adviser in order to satisfy the student's interests and to qualify the student for the state licensing examination 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).

Completion of the real estate major meets, or exceeds, the educational requirements necessary to take the state examinations required to receive the real estate salespersons's license and appraisal certification in 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 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; and 5) the major area requirements for real estate majors.

Note: to be eligible to pursue a real estate major, students must meet the admission requirements of 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 five (5) 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).
MAN	3240	Organizational Behavior (3).
MAR	3023	Basic Marketing Concepts (3).

General Business Breadth Requirements

All real estate majors must complete five (5) courses as follows. Each course selected must be completed with a grade of "C-" or better.

REE	3043	Real Estate (3).
RMI	3011	Risk Management and Insurance (3).

Plus three (3) electives from the following list of courses:

FIN	3244	Financial Markets, Institutions, and International Finance Systems (3).
HFT	3240	Managing Service Organizations (3).
ISM	3011	Introduction to Management Information Systems (3).
MAN	3504	Services Operations Management (3).
MAN	3600	Multinational Business Operations (3).
MAN	4720	Strategic Management and Business Policy (3).
MAR	3700	Professional Selling (3).
QMB	3200	Quantitative Methods for Business Decisions (3).

Major Area Requirements

All real estate majors must complete the five (5) 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 Appraisal (3).
REE	4143	Real Estate Market Analysis (3).
REE	4204	Real Estate Finance (3).
REE	4313	Real Estate Feasibility Analysis (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 adviser.

Definition of Prefixes

BUL	—	Business Law
REE	—	Real Estate
RMI	—	Risk Management/Insurance

Undergraduate Courses

BUL 3310. The Legal Environment of Business (3). An introduction to the legal setting in which business operates. Emphasis 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, agency/unemployment law, and related topics.

BUL 3330. Law for Accountancy (4). Basic concepts of law as applied to the accounting profession, including contracts, agency, partnerships and corporations, property, wills and trusts, securities regulation, consumer protection, and antitrust. Students may not receive credit for both BUL 3310 and 3330.

BUL 3350. Uniform Commercial Code Business Law Problems (3). Prerequisite: BUL 3310 or 3330. Uniform Commercial Code. The law of sales, commercial paper, secured transactions, competition, and the antitrust laws; professional liability.

BUL 3360. The Law of Business (3). Prerequisite: BUL 3310. Business organizations and relations; the law of agency, partnerships, and corporations; real and personal property; environmental law.

REE 3043. Real Estate (3). 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.

RMI 3011. Risk Management/Insurance (3). Prerequisite: STA 3014. An introduction to the principles of risk management and insurance and their application to personal and business pure risk problems.

REE 4103. Real Estate Appraisal (3). Prerequisite: REE 3043. The course acquaints the student with the appraisal process and the basics of appraisal language. 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, 4103. (**Note:** REE 4103 and 4143 cannot be taken concurrently.) Topics in this course include techniques of real estate market analysis, survey research, and applications of computers to real estate problems.

REE 4204. Real Estate Finance (3). Prerequisites: REE 3043; FIN 3403. 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 Feasibility Analysis (3). Prerequisite: REE 3043. A course synthesizing real estate finance, investment analysis, and project planning. Project oriented, treating the comprehensive feasibility analysis process.

REE 4433. Legal Environment of Real Estate (3). Prerequisites: BUL 3310; REE 3043. 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 (9) semester hours.

REE 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine (9) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

RMI 4115. Life and Health Insurance Products (3). Prerequisite: RMI 3011. Analysis of 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. Study of 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. Analysis of 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 4292. Property and Casualty Insurer Operations (3). Prerequisites: FIN 3403; RMI 3011, 4224. A discussion of 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). Prerequisites: RMI 3011, 4224. A study of business insurance problem evaluation and planning with proposed solutions utilizing comprehensive coverage package programs.

RMI 4308r. Seminar in Risk and Its Control (3). Prerequisite: Consent of instructor. May be repeated to a maximum of six (6) semester hours.

RMI 4347. Commercial Risk Management (3). Prerequisites: FIN 3403; RMI 4224. 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; RMI 3011. 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 (3) times.

RMI 4970r. Honors Thesis (1–6). Prerequisite: Admission to the honors program. May be repeated to a maximum of nine (9) semester hours. Six (6) semester hours of thesis are required to complete honors in the major.

Graduate Courses

BUL 5810. The Legal Environment of Business (3).

REE 5045. The Real Estate Process (3).

REE 5315. Real Estate Project Feasibility Analysis (3).
 REE 5935r. Special Topics in Real Estate (1–3).
 RMI 5011C. Fundamentals of Risk and Insurance (3).
 RMI 5136. Employee Benefit Plans (3).
 RMI 5225C. Property/Liability Insurance Contract Analysis (3).
 RMI 5345. Risk Management in the Business Enterprise (3).
 RMI 5710C. Insurance Company Operations (3).
 RMI 5720C. Insurance Accounting and Finance (3).
 RMI 5810C. 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 in Risk Management and Insurance (1–3). (S/U grade only.)
 RMI 6946r. Supervised Teaching (1–3). (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*.

RUSSIAN: see Modern Languages and Linguistics

Interdisciplinary Program in RUSSIAN AND EAST EUROPEAN STUDIES

COLLEGE OF SOCIAL SCIENCES

Director: Ljubisa S. Adamovich (Economics); *Professors:* Adamovich (Economics), Launer (Modern Languages and Linguistics), Macesich (Economics), Oldson (History), O'Sullivan (Geography), Wynot (History); *Associate Professor:* Efimov (Modern Languages and Linguistics); *Assistant Professor:* Grant (History)

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 the 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. This program also combines area- or country- specific courses, which give students the needed cultural immersion, with more general comparative courses, which provide them with the necessary intellectual tools, the 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.

Requirements

Students majoring in the program are to construct their study program around four components: 1) a language requirement; 2) a history requirement;

3) area-specific course work that emphasizes one of two tracks; and 4) a concepts and theories tool requirement to be fulfilled in the student's major track. The total hour requirements for a major are a minimum of twelve (12) semester hours in an approved area language plus an additional thirty-six (36) semester hours beyond the liberal studies requirements (with a grade of "C" or better in each course) distributed across the history requirement and the two tracks. As an interdisciplinary program, no minor is required.

Language Requirement

All students are required to take twelve (12) semester hours of course work in a relevant area language (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 both reading and speaking by either taking additional course work on The Florida State University 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 The Florida State University, as such programs become available. To encourage the achievement of language proficiency, language course work hours taken beyond the twelve (12) semester hour minimum will be counted towards the required thirty-six (36) semester hours for the major.

History Requirement

Students are required to take a minimum of six (6) semester hours of work in the Russian and East European history courses listed below.

Major and Minor Track Requirements

Students are to select either the social science track or the arts and humanities track as the major focus of their course work. Students are to take a minimum of twelve (12) semester hours

of course work from among those area specific courses listed for their major track and a minimum of six (6) semester hours of course work from among those area specific courses listed for their minor track.

Concepts and Theories Tool Requirement

For each of the two tracks, a larger number of concepts and theories courses are listed, selected from the relevant disciplines. Students are to take a minimum of six (6) semester hours of course work from among those courses listed for their major track. Students should select these courses with some care, and in consultation with the program director. Courses should be narrowly focused on one or possibly two academic disciplines most relevant to the student's primary Russian and East European-related interests and career goals.

Minor

Students minoring in the program must complete eighteen (18) semester hours of Russian and East European course work beyond the liberal studies requirement. In this case none of the broader comparative concepts and theories courses will count towards the eighteen (18) semester hour minimum. Students may select freely from all area specific courses so long as at least three (3) semester hours are taken in history and each of the two tracks.

Russian and East European History

EUH 2035 Hitler and Stalin: Their Era and Legacies (3)
 EUH 3551 Modern Poland (3)
 EUH 3571 Russia to Nicholas I (3)

EUH	3572	History of Russia: 1825 to the Present (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	4574	19th-Century Russia (3)
EUH	4576	20th-Century Russia (3)
WOH	4244	World War II (3)

Social Science Track—Area Specific

CPO	3614	East European Politics (3)
CPS	4321	Contemporary Policy Studies: Contemporary Southeast Europe (3)
ECS	4333	Transition of Soviet and Eastern European Economies (3)
GEA	4500	Europe (3)
GEA	4554	Russia and Southern Eurasia (3)
INR	4083	International Conflict (3)

Social Science Track—Comparative Concepts and Theories

CPO	2002	Introduction to Comparative Government and Politics (3)
ECO	2000	Introduction to Economic Thinking (3)
ECO	2013	Principles of Macroeconomics (3)
ECO	2023	Principles of Microeconomics (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	3540	Economic Geography (3)
GEO	4420	Cultural Geography (3)
GEO	4471	Political Geography (3)
GEO	4480	Military Geography (3)
INR	2002	Introduction to International Relations (3)
INR	3603	Theories of International Relations (3)
INR	4702	Political Economy of International Relations (3)
MAN	3600	Multinational Business Operations (3)

PAD	3003	Public Administration in American Society (3)
POS	4210	Economic Interpretations of American Politics (3)
POT	3003	Introduction to Political Thought (3)
PSY	2012	General Psychology (3)
PUP	3002	Introduction to Public Policy (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)
SYO	4550	Comparative Sociology (3)
SYP	3000	Social Psychology of Groups (3)
SYP	3300	Collective Action and Social Movements (3)
SYP	3540	Sociology of Law (3)
SYP	4340	Public Opinion Analysis (3)

Arts and Humanities—Area Specific

PHM	3350	Introduction to Marxist Philosophy (3)
RUT	3110	Russian Literature in English Translation (3)
RUT	3500	Modern Russian Life (3)
RUW	3100, 3101	Survey of Russian Literature I, II (3, 3)
RUW	3391	Russian Cinema (3)
RUW	4370	Russian Short Story and Povest (3)
RUW	4470r	Modern Russian Literature (3)
SLL	3500	Slavic Culture and Civilization (3)
THE	4111	European Theatre History II (3)

Arts and Humanities—Comparative Concepts and Theories

ANT	2410	Introduction to Cultural Anthropology (3)
ANT	3212	Peoples of the World (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)
PHI	2010	Introduction to Philosophy (3)
PHI	2630	Ethical Issues and Life Choices (3)
PHI	3420	Philosophy of the Social Sciences (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	3400	Philosophy of Law (3)
PHM	4340r	Contemporary Political Thought (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)

Definition of Prefix

EUS — Russian and East European Studies

Undergraduate Courses

EUS 4905r. Directed Individual Study (1–3). May be repeated to a maximum of nine (9) semester hours.

EUS 4970r. Honors Thesis (1–6). Six (6) hours of credit must be taken in two (2) successive semesters and must result in the production of a thesis. May be repeated to a maximum of nine (9) 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

Interdisciplinary Major in SECONDARY SCIENCE AND/OR MATHEMATICS TEACHING (SSMT)

COLLEGE OF ARTS AND SCIENCES

Director and Advisor: Dr. Ellen Granger, Office of Science Teaching Activities

This interdisciplinary major was designed to address the critical shortage of science and mathematics teachers in the state of Florida. Students completing this four-year program will receive a bachelor of science (BS) degree from the College of Arts and Sciences and are qualified for certification to teach in high schools in Florida and for national certification.

The SSMT program includes several unique features: 1) The condensed pedagogy component frees students to take additional courses in their areas of specialty; 2) In most cases, a student will be certified to teach in two areas. This feature prepares teachers for the reality of the secondary school environment, where teachers are often required to teach more than one subject; and 3) A seminar course addresses specific problems and issues related to science and mathematics teaching at the secondary level.

Students must complete a basic science/math core and courses from one of the seven specialty tracks (mathematics/physics, physics/chemistry, physics/earth-space science, biology/chemistry, biology/earth-space science, biology/psychology, mathematics/statistics). Each specialty track has been certified as an approved teacher education program by the Florida Department of Education.

Students may obtain a double major by completing the major requirements for any of the individual science or math departments in addition to the program listed below. In most cases, the second major requires about twenty-one (21) to twenty-six (26) additional semester hours in the department granting the second major, as opposed to a minimum of thirty (30) semester hours of work, should the student decide to obtain a second degree after graduation.

All students must complete the University's liberal studies requirements, including computer and oral competency, core courses, and one of the specialty tracks.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course 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.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Forty-five (45) semester hours chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;

b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033, and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

5. MAC 1113;
6. MAC 1140.
7. Fifteen (15) semester hours in the science/mathematics area of specialization. Contact department for details.

The Common Course Prerequisites listed above apply to each of the seven tracks in secondary science/math teacher education.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Note: courses specified in category 4 may be applied to the corresponding requirements in liberal arts and sciences noted above.

College Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*. Please refer to the 'Planning Guide to Teacher Education Program' section in the "College of Education" chapter of this *General Bulletin*. Contact the program director for details.

Secondary Science and/or Mathematics Track I: Biology/Chemistry

1. Liberal Studies:

See the 'Teacher Preparation General Education' section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

BSC	2010	Biological Science I (3)
BSC	2010L	Biological Science I Laboratory (1)
CHM	1045	General Chemistry I (3)
CHM	1045L	General Chemistry I Laboratory (0)
PHY	2048C	General Physics A (5)

or

PHY	2053C	College Physics A (4)
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3. **Modern Language:** twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF	4210	Educational Psychology: Developing Learners (3)
EDF	4430	Classroom Assessment (3)
EME	2040	Introduction to Educational Technology (3)
RED	4360	Teaching Reading in Middle/Secondary Schools (3)
SCE	4939r	Seminar in Contemporary Science, Mathematics, and Science Education (1)
TSL	4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specialization:

BCH	4053	General Biochemistry I (3)
BOT	3015	Plant Biology (2)
BSC	2011	Biological Science II (3)
BSC	2011L	Animal Diversity Laboratory (2)
BSC	3402L	Experimental Biology Laboratory (2)

CHM 1046	General Chemistry II (3)
CHM 1046L	General Chemistry II Laboratory (0)
CHM 3120C	Introduction to Analytical Chemistry (4)
or	
XXX XXXX	Biology Elective (4)
CHM 2210	Organic Chemistry I (3)
CHM 2211	Organic Chemistry II (3)
CHM 2211L	Organic Chemistry II Laboratory (3)
PCB 2099	Human Physiology (3)
PCB 3063	General Genetics (3)
PCB 4674	Evolution (3)
SCE 4362	Teaching and Learning Science (3)
SCE 4944	Student Teaching in Science (10)
SCE 4948	Classroom Management and Planning in Science Education (3)

Secondary Science and/or Mathematics Track II: Biology/Earth-Space Science

1. Liberal Studies:

See the 'Teacher Preparation General Education' section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

BSC 2010	Biological Science I (3)
BSC 2010L	Biological Science I Laboratory (1)
CHM 1045	General Chemistry I (3)
CHM 1045L	General Chemistry I Laboratory (0)

3. **Modern Language:** twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF 4210	Educational Psychology: Developing Learners (3)
EDF 4430	Classroom Assessment (3)
EME 2040	Introduction to Educational Technology (3)
RED 4360	Teaching Reading in Middle/Secondary Schools (3)
SCE 4939r	Seminar in Contemporary Science, Mathematics, and Science Education (1)
TSL 4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specialization:

AST 3033	Recent Advances in Astronomy and Cosmology (3)
BOT 3015	Plant Biology (2)
BSC 2011	Biological Science II (3)
BSC 2011L	Animal Diversity Laboratory (2)
BSC 3402L	Experimental Biology Laboratory (2)
GLY 2010C	Physical Geology (4)
GLY 2100	Historical Geology (3)
GLY 2100L	Historical Geology Laboratory (1)

MET 1010	Introduction to the Atmosphere (3)
OCE 4011	Principles of Oceanography (3)
PCB 2099	Human Physiology (3)
PCB 3063	General Genetics (3)
PCB 4674	Evolution (3)
SCE 4362	Teaching and Learning Science (3)
SCE 4944	Student Teaching in Science (10)
SCE 4948	Classroom Management and Planning in Science Education (3)
XXX XXXX	Biology Electives (7). BSC 4900 strongly recommended.
XXX XXXX	Earth/Space Science Electives (4)

Secondary Science and/or Mathematics Track III: Biology/Psychology

1. Liberal Studies:

See the 'Teacher Preparation General Education' section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

BSC 2010	Biological Science I (3)
BSC 2010L	Biological Science I Laboratory (1)
CHM 1045	General Chemistry I (3)
CHM 1045L	General Chemistry I Laboratory (0)
PHY 2048C	General Physics A (5)

or

PHY 2053C	College Physics A (4)
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3. **Modern Language:** twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF 4210	Educational Psychology: Developing Learners (3)
EDF 4430	Classroom Assessment (3)
EME 2040	Introduction to Educational Technology (3)
RED 4360	Teaching Reading in Middle/Secondary Schools (3)
SCE 4939r	Seminar in Contemporary Science, Mathematics, and Science Education (1)
TSL 4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specialization:

BOT 3015	Plant Biology (2)
BSC 2011	Biological Science II (3)
BSC 2011L	Animal Diversity Laboratory (2)
BSC 3402L	Experimental Biology Laboratory (2)
CBH 4304	Behavioral Genetics (3)
EXP 3000	Approaches to the Study of Behavior (3)
EXP 3000L	Approaches to the Study of Behavior Lab (1)
EXP 3202	Sensation and Perception (3)
EXP 3422	Conditioning and Learning (3)

EXP 3422L	Conditioning and Learning Laboratory (1)
PCB 2099	Human Physiology (3)
PCB 3063	General Genetics (3)
PCB 4674	Evolution (3)
PSB 3004	Physiological Psychology (3)
SCE 4362	Teaching and Learning Science (3)
SCE 4944	Student Teaching in Science (10)
SCE 4948	Classroom Management and Planning in Science Education (3)
XXX XXXX	Biology Electives (4). BSC4900 strongly recommended.

Secondary Science and/or Mathematics Track IV: Mathematics/Physics

1. Liberal Studies:

See the 'Teacher Preparation General Education' section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

CGS 3408	Introduction to Programming with the C Language (3)
CHM 1045	General Chemistry I (3)
CHM 1045L	General Chemistry I Laboratory (0)
PHY 2048C	General Physics A (5)

3. **Modern Language:** twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF 4210	Educational Psychology: Developing Learners (3)
EDF 4430	Classroom Assessment (3)
EME 2040	Introduction to Educational Technology (3)
RED 4360	Teaching Reading in Middle/Secondary Schools (3)
SCE 4939r	Seminar in Contemporary Science, Mathematics, and Science Education (1)
TSL 4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specialization:

MAC 2311	Calculus with Analytic Geometry I (4)
MAC 2312	Calculus with Analytic Geometry II (4)
MAC 2313	Calculus with Analytic Geometry III (5). (Optional)
MAE 4330	How Adolescents Learn Mathematics (3)
MAE 4335	Teaching High School Mathematics (3)
MAE 4940	Classroom Management and Planning Instruction in Middle/High School Mathematics (4)
MAE 4945	Student Teaching in Mathematics (dual Math/Physics internship) (12)
MAP 2302	Ordinary Differential Equations (3)

or

MAP	3305	Engineering Mathematics I (3)
MAS	3105	Applied Linear Algebra I (4)
MAS	3301	Introduction to Modern Algebra (3)
MTG	4212	College Geometry (3)
PHY	2049C	General Physics B (5)
PHY	3101	Intermediate Modern Physics (3)
PHY	3221	Intermediate Mechanics (3)
PHY	3424	Optics (3)
PHY	3802L	Intermediate Laboratory A (1)
PHY	4905	Directed Individual Study (3) (Optional)
SCE	4905r	Directed Individual Study (1)*
STA	4442	Introductory Probability I (3)

* Although a variable credit course, the number in parentheses represents the Secondary Science and/or Mathematics Teaching requirement.

Secondary Science and/or Mathematics Track V: Mathematics/Statistics

1. Liberal Studies:

See the "Teacher Preparation General Education" section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

BSC	2010	Biological Science I (3)
CGS	3408	Introduction to Programming with the C Language (3)
CHM	1045	General Chemistry I (3)
CHM	1045L	General Chemistry I Laboratory (0)
PHY	2048C	General Physics A (5)

3. Modern Language: twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF	4210	Educational Psychology: Developing Learners (3)
EDF	4430	Classroom Assessment (3)
EME	2040	Introduction to Educational Technology (3)
RED	4360	Teaching Reading in Middle/Secondary Schools (3)
SCE	4939r	Seminar in Contemporary, Mathematics, and Science Education (1)
TSL	4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specialization:

MAC	2311	Calculus with Analytic Geometry I (4)
MAC	2312	Calculus with Analytic Geometry II (4)
MAC	2313	Calculus with Analytic Geometry III (5)
MAD	2104	Discrete Mathematics I (3)
MAE	4330	How Adolescents Learn Mathematics (3)

MAE	4335	Teaching High School Mathematics (3)
MAE	4940	Classroom Management and Planning Instruction in Middle/High School Mathematics (4)
MAE	4945	Student Teaching in Mathematics (12)
MAP	2302	Ordinary Differential Equations (3)
MAP	4103	Mathematical Modeling (3)
MAS	3105	Applied Linear Algebra I (4)
MAS	3301	Introduction to Modern Algebra (3)
MTG	4212	College Geometry (3)
STA	4442	Introductory Probability I (3)

Secondary Science and/or Mathematics Track VI: Physics/Chemistry

1. Liberal Studies:

See the "Teacher Preparation General Education" section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

BSC	2010	Biological Science I (3)
CHM	1045	General Chemistry I (3)
CHM	1045L	General Chemistry I Laboratory (0)
PHY	2048C	General Physics A (5)

3. Modern Language: twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF	4210	Educational Psychology: Developing Learners (3)
EDF	4430	Classroom Assessment (3)
EME	2040	Introduction to Educational Technology (3)
RED	4360	Teaching Reading in Middle/Secondary Schools (3)
SCE	4939r	Seminar in Contemporary Science, Mathematics, and Science Education (1)
TSL	4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specialization:

BCH	3023C	Introduction to Biochemistry (3)
or		
BCH	4053	General Biochemistry I (3)
CHM	1046	General Chemistry II (3)
CHM	1046L	General Chemistry II Laboratory (0)
CHM	2210	Organic Chemistry I (3)
CHM	3400	General Physical Chemistry (4)
MAC	2311	Calculus with Analytic Geometry I (4)
MAC	2312	Calculus with Analytic Geometry II (4)
PHY	2049C	General Physics B (5)
PHY	3101	Intermediate Modern Physics (3)
PHY	3424	Optics (3)
PHY	3802L	Intermediate Laboratory A (1)

Choice of:

MAP	3305	Engineering Mathematics I (3)
and		
PHY	3221	Intermediate Mechanics (3)
or		
CHM	2211	Organic Chemistry II (3)
and		
CHM	2211L	Organic Chemistry II Laboratory (3)
PHY	4905	Directed Individual Study (3) (Optional)
SCE	4362	Teaching and Learning Science (3)
SCE	4944	Student Teaching in Science (10)
SCE	4948	Classroom Management and Planning in Science Education (3)

Secondary Science and/or Mathematics Track VII: Physics/Earth-Space Science

1. Liberal Studies:

See the "Teacher Preparation General Education" section of the "College of Education" chapter in this *General Bulletin* and the State of Florida Common Course Prerequisites listed above.

2. Science/Math Core (includes liberal studies, natural science):

CHM	1045	General Chemistry I (3)
CHM	1045L	General Chemistry I Laboratory (0)
PHY	2048C	General Physics A (5)

3. Modern Language: twelve (12) semester hours (department depends on language selected).

4. Education Core:

EDF	4210	Educational Psychology: Developing Learners (3)
EDF	4430	Classroom Assessment (3)
EME	2040	Introduction to Educational Technology (3)
RED	4360	Teaching Reading in Middle/Secondary Schools (3)
SCE	4939r	Seminar in Contemporary Science, Mathematics, and Science Education (1)
TSL	4324	ESOL Instruction in the Content Area (3)

5. Advanced Courses Required for Specializations:

AST	3033	Recent Advances in Astronomy and Cosmology (3)
GLY	2010C	Physical Geology (4)
MAC	2311	Calculus with Analytic Geometry I (4)
MAC	2312	Calculus with Analytic Geometry II (4)
MAP	3305	Engineering Mathematics I (3)
MET	2700	General Meteorology (2)
OCE	4011	Principles of Oceanography (3)
or		
OCE	5009	Advanced General Oceanography (3)

PHY	2049C	General Physics B (5)
PHY	3101	Intermediate Modern Physics (3)
PHY	3221	Intermediate Mechanics (3)
PHY	3424	Optics (3)
PHY	3802L	Intermediate Laboratory A (1)

SCE	4362	Teaching and Learning Science (3)
SCE	4944	Student Teaching in Science (10)
SCE	4948	Classroom Management and Planning in Science Education (3)
XXX	XXXX	Earth/Space Science Electives (6) (GLY 4905, MET 4905 or OCE 4905 strongly recommended.)

SERBO-CROATIAN; SLAVIC: see Modern Languages and Linguistics

Interdisciplinary Program in SOCIAL SCIENCE

COLLEGE OF SOCIAL SCIENCES

Director: Robert E. Crew, Jr., Office of the Dean, College of Social Sciences

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. The departments whose courses may be utilized in the program are Anthropology, Economics, Geography, History, Political Science, Sociology, and Urban and Regional Planning, along with the School of Public Administration and Policy.

The program will be particularly appealing to students who have wide-ranging interests in social issues. Its flexibility permits students to pursue specialized and preprofessional interests and to expose themselves to the variety of perspectives of the social sciences.

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The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. Two introductory courses for six (6) semester hours in a social science discipline.

Requirements

A major in the interdisciplinary program requires forty-two (42) semester hours, including nine (9) semester hours in courses taken to satisfy liberal studies requirements. For the usual major, work must be taken in at least three departments within the program. There must be a primary concentration of eighteen (18) semester hours in one department, a second concentration of twelve (12) semester hours in another department, while the remaining twelve (12) semester hours may be distributed among any of the remaining social science departments. Students must complete a total of twenty (20) semester hours in courses numbered above 2999. A minimum cumulative grade point average (GPA) of 2.0 on all course work applied to the major must be maintained.

Students may also, rather than selecting courses in the manner identified above, seek an interdisciplinary concentration in four topical areas of study. These are environmental affairs, law and society, urban studies, and public service. Each of these concentrations are multicourse programs focusing on the named topics. For details about these concentrations, see the program director.

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) and to master of arts (MA) and master of science (MS) degrees.

Requirements for a Minor 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 (15) semester hours of course work in interdisciplinary social science participating departments, which include interdisciplinary social science, anthropology, economics, geography, history, political science, 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 Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

CPS	—	Comparative Policy Studies
ISS	—	Social Science: Interdisciplinary

Undergraduate Courses

CPS 4321. Comparative Policy Studies: Contemporary Southeast Europe (3). Contemporary problems and prospects for Southeast Europe.

CPS 4905r. Directed Individual Study (3). May be repeated to a maximum of nine (9) semester hours.

ISS 4905r. Directed Individual Study (1–3). May be repeated to a maximum of six (6) semester hours.

ISS 4906r. Directed Individual Study (3). May be repeated to a maximum of six (6) semester hours.

ISS 4907r. Honors Work (1–6). May be repeated to a maximum of nine (9) 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 (18) semester hours.

ISS 4944r. Internship (3–6). Students are placed in a variety of employment situations related to their academic interest and conduct, under faculty supervision, research related to a problem or issue facing the sponsor of the internship. May be repeated to a maximum of six (6) semester hours.

Graduate Courses

CPS	5325.	Joint Seminar in Comparative Resource Development I (3).
CPS	5424.	Research Seminar in Comparative Political and Administrative Organization (3).
CPS	5454.	Research Seminar in Science, Technology, and Environmental Policy (3).
CPS	5474.	Research Seminar in International and Comparative Law (3).
CPS	5906r.	Directed Individual Study (3). (S/U grade only.)
CPS	5911r.	Supervised Research (1–5). (S/U grade only.)
ISS	5125.	Introduction to Economics for Executives (3).
ISS	5386.	Information and Communication Management (3).
ISS	5905.	Direct Individual Study (3).
ISS	5930r.	Special Topics in Social Science (1–3).
ISS	5945.	Internship (3–6).
ISS	5942r.	Supervised Teaching (1–3). (S/U grade only.)
ISS	5951r.	Problem Analysis Project (3).

For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

SOCIAL WORK

SCHOOL OF SOCIAL WORK

Professors: Bardill, Figley, Harrison, Mazza, McNeece, Smith, Thyer, Vinton; *Associate Professors:* Abell, Crook, Maxwell; *Assistant Professors:* Altholz, T. Gomory, Rutledge, Ryan, Sielbert, Teasley, Wilke; *Visiting Assistant Professors:* F. Gomory, Perry; *Faculty Administrators:* Berry, Graham, Lager, Maddox, Stanley; *Visiting Faculty Administrator:* Kearney; *Associate in Field Instruction:* Keroack; *Associate in Research:* Bax; *Assistants in Field Instruction:* Allen, Boone, Calohan, Detweiler, Schultz, Sheheen, Yanke; *Assistant in Field Instruction and Academic Advising:* Mathis; *Associates in Social Work:* Cleveland, Lee

The School of Social Work offers programs of study leading to the 1) bachelor of social work (BSW) degree designed to enable students to give direct service to individuals, families, groups, and communities at the generalist level of social work practice; 2) master of social work (MSW) degree, which is designed, as an advanced practice degree, to increase the skills of professional social workers to more advanced competencies acquired through two concentrations—the clinical social work concentration and the social policy and administration concentration; and 3) doctor of philosophy (PhD) degree, which is designed to advance the social work profession through the development of researchers/scholars and educators.

For complete details of undergraduate degree requirements, plus a description of the School of Social Work, its opportunities, and available financial assistance, refer to the “School of Social Work” chapter of this *General Bulletin*. Refer to the *Graduate Bulletin* for graduate programs.

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The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Three (3) semester hours in each of the following:

1. American government (American national government or American government);
2. Biology (human biology or anatomy and physiology);
3. Economics (microeconomics or macroeconomics [ECO prefix]);
4. Introductory psychology;
5. Introductory sociology/social problems.

Definition of Prefix

SOW — Social Work

Undergraduate Courses

SOW 1502r. Human Services Experience (1). (S/U grade only.) Volunteer experience in a social agency or community program providing human service. Thirty (30) hours of volunteer work required per hour of credit. May be repeated to a maximum of three (3) semester hours.

SOW 3203. Introduction to Social Work and Social Welfare (3). This course surveys the philosophy, history, and services of social welfare as well as the values, methods, and practice settings of the profession of social work.

SOW 3350. Interviewing and Recording in Social Work (3). Overview of the basic elements of interviewing and recording as utilized in various helping professions.

SOW 3701. Alcohol Use and Abuse (2). Course examines the physiological, sociological, cultural, and psychological responses to alcohol use and abuse in the United States. Lectures, group discussion, and experiential learning help students assess their own values in relation to drinking. Alcoholism is discussed as it affects the individual and the family.

SOW 3949. Cooperative Education Work Experience (0). (S/U grade only.)

SOW 4102. Human Behavior in the Social Environment II (3). Prerequisites: SOW 1502, 3203, 3350. This course explores the dynamics and behaviors of task groups, communities and organizations. Theoretical explanations of group and organizational behavior also are explored.

SOW 4104. Human Behavior in the Social Environment I (3). Prerequisites: SOW 1502, 3203, 3350. This course focuses on the individual and various systems such as families, groups, organizations and communities. Theoretical explanations of psychosocial development across the life cycle also are explored.

SOW 4108. Women's Issues and Social Work (3). This course is designed to acquaint students with the focuses that affect women throughout life and the role that social work plays in addressing these issues.

SOW 4152. Human Sexuality (3). Survey of issues and problems associated with human sexuality, intended for social workers and others in helping professions. Emphasis on sexually oppressed groups, sexual life cycle from a psychosocial perspective, and student's attitudes and values regarding sexuality.

SOW 4157. Mediation and Conflict Resolution in Social Work (3). This course explores a variety of approaches to conflict resolution in many settings and integrates social work theory and mediation.

SOW 4232. Social Welfare Policies and Programs (3). Prerequisites: SOW 1502, 3203, 3350; economics and national government. Provides a beginning understanding of the relationship between social policy, social welfare, and American society. Particular attention will be paid to the nature of our present social welfare system and its impact on disadvantaged populations. Majors only.

SOW 4242. Social Services for Families and Children (3). Contemporary practice and policies in the area of social services for families and children. Attention given to historical roots and trends in child welfare services and to the societal values underlying them. Major U.S. programs serving parents and children are examined.

SOW 4280. Ethics in Social Work Practice (3). This course provides students with a framework of knowledge and skills to prepare them for effective ethical decision-making which adheres to the NASW Code of Ethics.

SOW 4302. Peer Advising in Social Work (3). Prerequisites: SOW 1502, 3203, 3350. This course offers students an opportunity to develop and strengthen interviewing, assessment, problem-solving, networking, and communication skills through participation in the School of Social Work Peer Advising Center.

SOW 4323. Theory and Practice of Social Work with Groups (3). A practice-oriented course to develop group leaders who have an understanding of group dynamics and possess effective leadership skills to facilitate group development and work. The course will focus on both task and treatment groups. Majors only.

SOW 4332. Theory and Practice of Community Organization (3). Examines contemporary models of social work practice from a macrosystems perspective. Community organizing, social planning, and the tactical use of group structures and processes in community organizing are emphasized as strategic processes in the identification, prevention, and solution of major social problems.

SOW 4340. Theories and Models of Social Work Practice (3). 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. Majors only.

SOW 4341. Social Work Practice (3). Prerequisites: SOW 1502, 3203, 3350. A beginning course in social work practice focusing on individuals, families and communities. Content includes: social work values, assessments, contracts, crisis intervention, family systems techniques, recording, working with minority and women clients, termination, and skill development component. Majors only.

SOW 4361. Social Networking and Case Management in Social Work (3). This course, an advanced “selective” class in the clinical concentration, introduces students to the history, theoretical underpinnings, and strategies of case management in various service delivery systems. Contemporary issues and implications for the changing practice environment are highlighted.

SOW 4403. Introduction to Social Work Research (3). Prerequisites: SOW 1502, 3203, 3350. An overview of methods and issues in social research designed to teach students to be critical consumers of others' research as well as to provide them an experience in conducting their own research. Includes design, data collection, data analysis, and interpretation. Methods of evaluating practice are presented. Majors only.

SOW 4414. Measurements in Social Work Research (3). Prerequisites: SOW 4403. Statistical procedures which have practical application to research in the social work profession. Majors only.

SOW 4454. Grant Writing and Grant Management (3). This course examines the “basics” of proposals, including purpose statements, background and justification, aims or objectives, personnel, time line, methods, budget and evaluation, and how to review and effectively manage grants once they are funded. The needs of disenfranchised groups or communities also are discussed in this course, along with the particulars of proposals that may be most effective in meeting such needs.

SOW 4510. Undergraduate Field Instruction (12). (S/U grade only.) Prerequisites: completion of all required social work courses; a 3.0 GPA in social work courses; Corequisite: SOW 4522. Supervised generalist experience in a social agency totaling five hundred twelve (512) hours. Internships are available fall, spring, and summer semesters. Students must submit an application to the Office of Field Instruction. Majors only.

SOW 4522. Integrative Field Seminar (3). To be taken concurrently with SOW 4510. Designed to assist students in integrating theoretical concepts with actual social work practice; examines professional issues faced by practitioners. Majors only.

SOW 4602. Social Work in Health Settings (3). Exploration of the characteristics of health and medical care programs in the U.S. and the parameters of social work practice within them. Patterns of service delivery, standards, rural-urban differences, and racial/ethnic and gender considerations in service delivery are addressed.

SOW 4615. Family Violence Across the Life Span (3). This course, looking at violence across the life-span, 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 and sexual assault survivors, victims of intimate partner violence or elder abuse.

SOW 4620. Diversity in Social Work Practice (3). This course will enhance students' understanding of human diversity and will prepare them to work with ethnic minorities, women, gays and lesbians and people with disabilities. Students also will understand the connections between diversity issues and social and economic justice.

SOW 4622. Social Work with Black Families (3). Theories and research relevant to examining selected forces that impact on African-American family structures and functions. Major consideration is given to misconceptions, misplaced emphasis, and myths about the African-American family in contemporary America and to appropriate models and strategies for intervention.

SOW 4627. Mental Health of Diverse Populations (3). This course examines various factors that impact the mental health of minorities, women and other diverse populations. Special focus on mental health needs, accessibility and services will be addressed.

SOW 4633. The Social Worker in the Public School System (3). Designed to give students an in-depth understanding of current school social work practices; focuses on the multidisciplinary team approach, alternative models of service delivery, the impact of Florida and federal legislation, and the characteristics of client problems encountered in the field.

SOW 4645. Aging and Old Age: Social Work with the Aged (3). An introduction to the field of aging. Course purposes include making students aware of their own attitudes toward aging and the aged, dispelling myths and stereotypes about the aged, and assessing past and present efforts to meet the needs of the elderly.

SOW 4654. Social Work With Children (3). Designed to increase the knowledge and understanding essential for effective interventions in the psychological and behavioral disorders of children and to develop special skills in working with children and their parents in the area of direct social work practice.

SOW 4658. Mental Health and Child Welfare (3). This course provides students with the knowledge and skills to relate to theory, research and implications of child and adolescent maltreatment in child development and mental health issues. This course is part of a child welfare certificate program.

SOW 4665. Juvenile Justice: A Social Work Perspective (3). This course is designed to provide students with an overview of the juvenile justice system. This includes, but is not limited to, the following: the history of the juvenile justice system; the juvenile court system; the role of law enforcement; policy development and implementation; community issues involving youth; and the prevention and treatment of delinquency. Students also gain a first-hand perspective on these issues during required visits to various community agencies and organizations.

SOW 4680. Living with AIDS: Prevention Intervention and Care (3). Provides a comprehensive overview of the biopsychosocial implications of HIV/AIDS-related illness. Research and policy implications are reviewed, with a focus on the roles of service providers responding to the needs of severely impacted groups.

SOW 4681. Mental Retardation: New Service Models (3). Course identifies policies, regulations, proposed legislation, or laws dealing with the problem of mental retardation. Addresses the major research contributions to the field of retardation and the implications of this research for practice. Focuses on the interdisciplinary systems of services needed by the retarded.

SOW 4702. Chemical Dependency Problems and Programs (3). Students are introduced to the etiology and epidemiology of chemical dependency. Both physiological and psychological aspects of addiction are covered. Major programs and treatment modalities used in social work practice for chemically dependent clients are examined.

SOW 4905r. Directed Individual Study (1-4). Prerequisites: Eight (8) credit hours in social work; 2.75 GPA; consent of instructor. May be repeated to a maximum of eight (8) semester hours. See departmental guidelines.

SOW 4911r. Honors Work in Social Work (1-6). Prerequisites: Junior standing; 3.2 or higher GPA; at least one term of twelve (12) or more semester hours; junior college transfers

with membership in Phi Theta Kappa may be admitted directly. 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 (9) semester hours.

SOW 4935r. Seminar in Social Work: Selected Topics (3). May be repeated to a maximum of twelve (12) semester hours as topics change.

Graduate Courses

SOW 5105. Human Behavior and the Social Environment I (3).

SOW 5106. Human Behavior and the Social Environment II (3).

SOW 5109. Women's Issues and Social Work (3).

SOW 5125. Psychopathology in Clinical Practice (3).

SOW 5153. Human Sexuality (3).

SOW 5156. Emotional and Social Aspects of Illness (3).

SOW 5158. Mediation and Conflict Resolution in Social Work (3).

SOW 5214r. Policy Innovations in Social Welfare (3).

SOW 5235. Policies and Programs in Social Services (3).

SOW 5238. Advanced Policy Analysis (3).

SOW 5281. Ethics in Social Work Practice (3).

SOW 5282. Legislative Advocacy (3).

SOW 5324. Group Treatment in Social Work Practice (3).

SOW 5334. Organization and Community System Change (3).

SOW 5335. Theories and Models of Social Work Practice (3).

SOW 5340. Theory and Practice of Poetry Therapy (3).

SOW 5342. Practice I: Social Work Practice with Individuals, Families and Small Groups (4).

SOW 5344. Practice II: Social Work with Task Groups, Communities, and Organizations (3).

SOW 5345. Advanced Social Services Administration (3).

SOW 5353. Marital and Couple Counseling in Social Work Practice (3).

SOW 5356. Social Work Practice (3).

SOW 5363. Evaluation of Social Work Practice (3).

SOW 5364. Theory and Practice of Psychodynamic Social Work (3).

SOW 5365. Behavioral Approaches to Social Work Practice (3).

SOW 5366. Social Networking and Case Management in Social Work (3).

SOW 5367. Theory and Practice of Crisis Intervention and Brief Treatment (3).

SOW 5369. Integrative Seminar in Advanced Social Work Practice (3).

SOW 5371. Dynamics of Social Services Systems (3).

SOW 5372. Supervision, Consultation, and Staff Development in Social Work (3).

SOW 5376. Budgeting and Finances in the Social Services (3).

SOW 5377. Personnel Administration in the Social Services (3).

SOW 5378. Data Management and Technologies in the Social Services (3).

SOW 5383. Theory and Practice of Administration for the Human Services (3).

SOW 5404. Introduction to Social Work Research (3).

SOW 5415. Measurement and Analysis in Social Work (3).

SOW 5435. Social Program and Policy 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 5612. Intensive Family Practice in Social Work (3).

SOW 5614. Family Violence Across the Life Span (3).

SOW 5623. Social Work with Black Families (3).

SOW 5628. Mental Health of Diverse Populations (3).

SOW 5635. The Social Worker in the Public School System (3).

SOW 5646. Aging and Old Age: Social Work with the Aged (3).

SOW 5655. Social Work with Children and Adolescents (3).

SOW 5656. Child Welfare Practice (3).

SOW 5659. Mental Health and Child Welfare (3).

SOW 5666. Juvenile Justice: A Social Work Perspective (3).

SOW 5671. Mind/Body, Medicine (3).

SOW 5683. Mental Retardation: Social Work Practice and Issues (3).

SOW 5688. Living with AIDS: Prevention Intervention and Care (3).

SOW 5712. Chemical Dependency Problems and Programs (3).

SOW 5908r. Directed Individual Study (1-4). (S/U grade only.)

SOW 5915r. Supervised Research (1-3).

SOW 5938r. Social Work Seminars: Selected Topics (3).

SOW 5941r. Supervised Teaching (1-3). (S/U grade only.)

SOW 6358. Assessment Methods in Social Work Practice Research (3).

SOW 6375Lr. Teaching Tutorial Laboratory (1-3). (S/U grade only.)

SOW 6398. History and Philosophy of Social Welfare Services and Policies (3).

SOW 6399. Social Policy Analysis (3).

SOW 6492. Theory, Design, and Problem Formulation in Social Work (3).

SOW 6494. Advanced Research in Social Work (3).

SOW 6693. Theories and Models of Social Work Practice (3).

SOW 6694.	Research Issues in Direct Practice (3).
SOW 6696.	Course Design and Curriculum Building in Social Work (3).
SOW 6697.	Philosophies of Science 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 (1–5). (S/U grade only.)
SOW 6936r.	Dissertation Seminar (2–5). (S/U grade only.)
SOW 6938r.	Selected Topics in Social Work (3).
SOW 6942r.	Supervised Teaching (1–3). (S/U grade only.)

SOW 6945r.	Family Therapy Practica (1–12).
SOW 6960.	Preliminary Prep (0–12). (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*.

Department of SOCIOLOGY

COLLEGE OF SOCIAL SCIENCES

Chair: Isaac Eberstein; *Professors:* Armer, Eberstein, Fendrich, Hardy, Imershein, Isaac, Kinloch, Martin, Orcutt, Quadagno, Turner; *Associate Professors:* Brewster, Dahms, Ford, Padavic; *Assistant Professors:* Barrett, Heron, Lloyd, Reid, Reynolds, Schrock, Taylor; *Visiting Professor:* Carlson; *Professors Emeriti:* Hazelrigg, Nam; *Affiliate Faculty:* Chiricos, Miles, Milton, Papagiannis, Sly

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 The Florida State University, the Department of Sociology examines all of these matters and others. Current research is ongoing in such diverse areas as gender, ethnicity, the welfare state, 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 employment, 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 opportunities to work closely with faculty on research projects. The department provides a wide range of courses on important aspects of social life, lead-

ing 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.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. Sociology majors should complete two (2) lower-level courses with the prefixes of SYA, SYD, SYG, SYO, or SYP.

Core Program

For acceptance as a sociology major, students must have successfully completed The Florida State University's math and English requirements for liberal studies with a grade point average (GPA) of 2.0 or better. Sociology majors are encouraged to complete all liberal studies requirements before admission to the College of Social Sciences.

Degrees

Students may earn a bachelor of arts (BA) or a bachelor of science (BS) degree in sociology.

Major

Students must complete thirty (30) 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 (15) semester hours in sociology at The Florida State University. Transfer of the required upper-division courses (SYA 4010, 4300, and 4400) is subject to the approval of the departmental chair.

Minor

A minor may be earned by completing any fifteen (15) semester hours in sociology with a grade of "C–" or better in each course. At least nine (9) of the fifteen (15) semester hours must be completed at The Florida State University.

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 Program and Honor Societies" chapter of this *General Bulletin*.

Definition of Prefixes

DEM	—	Demography
SYA	—	Sociological Analysis
SYD	—	Demography and Area Studies
SYG	—	Sociology: General
SYO	—	Social Organization
SYP	—	Social Processes

Undergraduate Courses

Introductory Course

SYG 1000. Introductory Sociology (3). An introduction to the fundamentals of sociology. 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 4010. Sociological Theory (3). This course introduces the student to the kind of theory which 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 which continue to be part of the sociological approach to explanation are covered.

SYA 4300. Methods of Social Research (3). 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.

The Family

SYG 2430. Marriage and the Family (3). This course is concerned with the processes of marriage and family relationships in a changing society. Topics covered include interpersonal attraction, heterosexual love relationships, pre-marital and marital sexuality, marital and family interaction, and alternative family forms. The major course objective is to familiarize students with the process of heterosexual and parent-child interaction over the life cycle from a sociological perspective.

SYO 3100. Family Problems and Social Change (3). 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 the groups and the individual on each other, including the study of norms, group pressure, leadership, motivation, and social personality.

SYP 3300. Collective Action and Social Movements (3). There have been scores of social movements in the U.S. and around the world in this century. The 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 4340. Public Opinion Analysis (3). An examination of the role of the mass media influences on public opinion, techniques of opinion measurement, and the impact of opinion polls on attitudes and behavior.

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.

Social Issues and Change

SYD 3800. Sociology of Sex and Gender (3). This course provides a look at the sociological facets of gender and its effect in society.

SYD 4700. Race and Minority Group Relations (3). An introduction to prevalent sociological concepts and theories utilized in the study of dominant-subordinate relationships between groups. The social significance of minority status is emphasized. Once introduced, concepts and theories are applied to the experiences of several nonwhite ethnic groups in the US with special attention being devoted to contemporary black-white relationships. The reemergence of white ethnicity is discussed in relation to the above.

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 and Work (3). This course is an introduction to the cultural and structural mechanisms that reproduce gendered outcomes in the workplace. It addresses occupational segregation, the wage gap, sex differences in promotions, unpaid family work, explanations of inequality, strategies for change and resistance to change, and the intersections of gender, race, and class.

SYO 4550. Comparative Sociology (3). This course deals with variations and patterns of development in individuals and social institutions across societies.

SYP 3400. Social Change (3). This course is concerned with the context, essential sources, dynamics, and consequences of social development, modernization, and societal change.

SYP 3730. Aging and the Life Course (3). In coming years, Americans will have to make important decisions regarding the consequences of population aging. This course explores how changing life course patterns have influenced retirement, health care, politics, and family structure. It also considers the policy choices that will have to be made in the twenty-first century as the baby boom generation reaches retirement age.

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

SYD 3600. The Community in Urban Society (3). An introduction to the community as a changing form of social organization with emphasis on community field studies (ethnographies), theories of communal organization, and the study of community-specific processes such as power distribution and decision making, conflict, stratification, and the dynamics of land-use change. Special attention is given to the study of the metropolitan community in US society and its inner city and suburbs.

SYO 3200. Sociology of Religion (3). A basic sociological perspective on the social organization and forms of religious life in modern society. Religious groups are studied as organizations that contribute to social stability, social conflict, and social change.

SYO 3530. Social Classes and Inequality (3). Basic theory of social stratification is presented and used in description of the stratification system in the United States and other nations. Opportunity for social mobility in the social structure is assessed and compared with rates of mobility in other countries.

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 4350. Sociology of Business, Labor, and Government (3). The primary focus of this course is on the interrelationships among business and production organizations, labor interests and struggles, and the state and state policies, from various theoretical and historical perspectives. In addition to critical evaluation of conventional political-economic perspectives, the course will examine recent sociological work on the state, the labor movement, and industry.

SYO 4400. Sociology of Health Care (3). An introduction to the organizational, economic and political structures and problems of American health care. Also introduces several of the sociological approaches that examine these issues.

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

SYA 4905r. Directed Individual Study (3). Consent of instructor and departmental chair required. May be repeated to a maximum of nine (9) semester hours.

SYA 4930r. Selected Topics in Sociology (3). May be repeated to a maximum of nine (9) semester hours.

SYA 4931r. Honors Work (3). May be repeated to a maximum of nine (9) semester hours.

SYA 4932r. Tutorial in Sociology (1). Prerequisite: upper division sociology majors or minors only. Reading and analysis of primary literature on selected topics in contemporary sociology. May be repeated to a maximum of three (3) semester hours.

Graduate Courses

Sociological Theory

- SYA 5125. Classical Social Theory (3).
 SYA 5126. Contemporary Sociological Theory (3).
 SYA 5205. Theory Construction (3).
 SYA 6934r. Selected Topics in Theory (3).

Research Methodology

- SYA 5315. Qualitative Research Methods in Sociology (3).
 SYA 5345. Introduction to Research Methods (3).
 SYA 5406. Multivariate Analysis (3).
 SYA 5407. Advanced Quantitative Methods (3).
 SYA 5455. Social Statistics and Data Analysis (3).
 SYA 5515. Sociological Research Practicum (1). (S/U grade only.)
 SYA 5516. Reporting Sociological Research (3). (S/U grade only.)
 SYA 6936r. Selected Topics in Research Methods (3).

Area Courses

- DEM 5906r. Directed Individual Study (1-3). (S/U grade only.)
 DEM 5910r. Supervised Research (1-5). (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.)
 DEM 8977. Master's Research Paper Defense (0). (S/U grade only.)
 SYA 5355. Comparative Historical Sociology (3).
 SYA 5625. Proseminar in Sociology (0-3). (S/U grade only.)
 SYA 6660. Teaching at the College Level in Sociology (3).
 SYA 6938r. Selected Topics in Social Institutions, Social Organization, and Social Policy (3).
 SYD 5045. Introduction to Demography (3).
 SYD 5105. Population Theory (3).
 SYD 5135. Techniques of Population Analysis (3).
 SYD 5137. Fundamentals of Epidemiology (3).
 SYD 5145. Population Policy (3).
 SYD 5215. Mortality (3).
 SYD 5225. Fertility (3).
 SYD 5235. Population Mobility (3).
 SYD 5705. Sociology of Race and Ethnicity (3).
 SYD 5817. Contemporary Theories of Gender (3).
 SYO 5105. Sociology of the Family (3).
 SYO 5126. Contemporary Family Theory (3).
 SYO 5185. Family and Work Linkages (3).
 SYO 5306. Political Sociology (3).
 SYO 5335. Sociology of Political Economy (3).
 SYO 5376. Sociology of Gender and Work (3).

SYO 5405.	Health Institutions and Social Policy (3).	SYP 5446.	Sociology of National Development (3).	SYA 5912r.	Supervised Research (1–5). (S/U grade only.)
SYO 5505.	Theories of Organization (3).	SYP 5516.	Sociological Theories of Deviance (3).	SYA 5946r.	Supervised Teaching (1–5). (S/U grade only.)
SYO 5535.	Social Stratification (3).	SYP 5735.	Sociology of Aging (3).	SYA 6933r.	Selected Topics in Sociology (3).
SYO 5545.	The Changing Workplace (3).	SYP 5737.	The Dynamics of Aging and Social Change (3).	SYA 8945r.	Doctoral Review Paper (1–12). (S/U grade only.)
SYO 6356.	Labor, Class, and Social Movement (3).	SYP 6356.	Sociology of the Contemporary Women's Movement (3).	For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the <i>Graduate Bulletin</i> .	
SYO 6373.	Sociology of Work and Labor Markets (3).	Others			
SYO 6506r.	Advanced Research Seminar in Social Organization (3–9).	SYA 5907r.	Directed Individual Study (3). (S/U grade only.)	SPANISH: see Modern Languages and Linguistics	
SYO 6538r.	Advanced Research Seminar in Stratification and Inequality (3–9).	SYA 5909r.	Directed Individual Study (1–3). (S/U grade only.)		
SYP 5305.	Collective Behavior and Social Movements (3).				

Department of SPECIAL EDUCATION

COLLEGE OF EDUCATION

Chair: Mary Frances Hanline; *Professors:* English, Koorland; *Associate Professors:* Burkhead, Ebener, Edwards, Hanline, Lewis, Menchetti, Oseroff, Ponder; *Assistant Professors:* Al Otaiba, Rosenblum; *Visiting Assistant:* O'Farrell; *Professors Emeriti:* G. Jones, Tait; *Courtesy Professor:* L. Jones

There are four major degree areas of specialization in the Department of Special Education: emotional disturbance/learning disabilities, mental disabilities, rehabilitation studies, and visual disabilities. Within the four it is possible to emphasize early childhood special education, special education technology, or transition. Please refer to the 'Teacher Preparation General Education Requirements' section of the "College of Education" chapter in this *General Bulletin* for additional details.

The following are offered by the Department of Special Education:

Emotional disturbance/learning disabilities +
Mental Disabilities +
Rehabilitation services
Special education*
Visual disabilities +
Certificate in early childhood/special
education*

* graduate only
+ 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 Pro-

grams, and State Board of Education Rule 6A-5.066, Approval of Preservice Teacher Preparation Programs.

State of Florida Common Course Prerequisites.

The State of Florida has identified common course prerequisites for the following University degree programs. 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 these programs. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

The following lists the common prerequisites or their substitutions necessary for admission into this upper-division degree program:

Education of the Mentally Handicapped

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Fifty-one (51) semester hours must be chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:

- a) A minimum of nine (9) semester hours in English, including writing, literature and speech;

- b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033 and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;

- c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;

- d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;

- e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

The only exception to the liberal arts and sciences requirement will be if there is a specific institutional requirement (e.g., a wellness course or a freshman seminar course) for the associate in arts or baccalaureate degree.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact the department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Education of the Blind and Visually Handicapped

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Fifty-one (51) semester hours must be chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
 - b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033 and including college algebra or higher, and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in the natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

The only exception to the liberal arts and sciences requirement will be if there is a specific institutional requirement (e.g., a wellness course or a freshman seminar course) for the associate in arts or baccalaureate degree.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact the department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or bac-

calaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Education of Specific Learning Disabled

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. EDF X005;
2. EDG 2701;
3. EME 2040;
4. Fifty-one (51) semester hours must be chosen from the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences. These hours must include:
 - a) A minimum of nine (9) semester hours in English, including writing, literature, and speech;
 - b) A minimum of nine (9) semester hours in mathematics (MGF, MGT, MAC and STA prefixes only), excluding MAT 1033 and including college algebra or higher and geometry. MGF 1106 Liberal Arts Mathematics I meets the intent of the program approval rule with respect to the inclusion of geometry in the mathematics requirement;
 - c) A minimum of nine (9) semester hours in natural and/or physical sciences, including earth science, life science, and physical science, with a minimum of one associated lab;
 - d) A minimum of six (6) semester hours in the humanities, including philosophy and fine arts;
 - e) A minimum of twelve (12) semester hours in the social sciences, including general psychology and American history.

The only exception to the liberal arts and sciences requirement will be if there is a specific institutional requirement (e.g., a wellness course or a freshman seminar course) for the associate in arts or baccalaureate degree.

Education courses may not be used to meet these communications, mathematics, natural and/or physical science, humanities, or social science requirements.

In addition to EDG 2701, the student must take six (6) additional semester hours with an international or diversity focus. The eligible courses will be determined by the institution where the student is currently earning his or her AA or baccalaureate degree. Foreign language courses may be used to meet this requirement. Contact the department and/or adviser for details.

Eligible courses will be determined by the community college or university where the student currently is earning the Associate in Arts or baccalaureate degree and will be published in the institution's catalog and in the *Community College Counseling Manual*.

Therapeutic Recreation

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the 'Common Prerequisites Manuals' subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

1. BSC X084 or PET 3301 or a three (3) semester hour combination of anatomy and either physiology or exercise physiology;
2. DEP X004 or RCS 3061. This course must be a human growth and development across the life span;
3. HSC X531 or any medical terminology course;
4. PSY XXXX, general psychology course

Emotional Disturbance/ Learning Disabilities

This degree major is designed to prepare individuals for careers as public school teachers of students with mild/moderate emotional disturbances and learning disabilities. The program leads to certification in emotionally handicapped, specific learning disabilities, and varying exceptionalities.

This degree major is a three-year training program that culminates in the simultaneous awarding of the bachelor of science (BS) and master of science (MS) degrees. Students must maintain a 3.0 grade point average (GPA) during the junior/senior years of study or earn a 1000 on the general aptitude section of the Graduate Record Examinations (GRE) in order to be admitted for the third (master's) year of study.

Mental Disabilities

This degree major is designed to prepare persons for careers as teachers of children and youth with mental disabilities. The teacher is equipped to teach all levels of severity at the elementary and secondary level in public schools, private schools, or in residential facilities.

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. The bachelor's degree program prepares individuals as 1) classroom teachers; and 2) orientation and mobility specialists. Students are drawn from the southeastern area of the United States

and, following graduation, are employed in a variety of settings that offer services to children and youth with visual impairments.

Continuation Requirement

All special education majors must earn a minimum grade of “C–,” “satisfactory,” or “pass” in each required course.

Admission Requirements

1. Students are admitted during the Fall and Spring semesters. It is preferable that program applications be submitted to the department by March 15th for the fall and November 1st for the spring semester, but late applications are considered.
2. A 2.5 GPA minimum during the freshman and sophomore years is required;
3. Previous experience with individuals with disabilities (for example, volunteer work) is helpful;
4. An interview with program faculty; and,
5. All admission criteria for teacher certification must be met (listed in the “College of Education” chapter of this *General Bulletin*);

Note: the admission policies for these programs currently are under review and had not been finalized by the publication of this *General Bulletin*. Contact the Department of Special Education for the most current admission policies.

Rehabilitation Services

Professor: English; *Associate Professors:* Burkhead, Ebener

The purpose of the baccalaureate program in rehabilitation services is to provide students with professional knowledge and competencies required of entry-level, direct-service providers in a wide variety of public and private service agencies. Among the kinds of occupations available for graduates are mental health technicians, case managers, psychological aides, behavior specialists, job coaches and advisors, disability-focused assistants, gerontological assistants, drug and alcohol treatment specialists, occupational specialists and correctional specialists.

Admission

New students are admitted in the Fall, Spring, and Summer semesters. Students must complete an interview with the program coordinator and must meet the University requirements for initial admission and/or matriculation from the lower division.

Degree Requirements

The baccalaureate degree in rehabilitation services requires students to complete sixty (60) semester hours at the upper-division level. This curriculum includes nine courses (forty [40] semester hours) in rehabilitation services and seven required electives (twenty [20] semester hours). Re-

habilitation core courses include: MHS 4001; RCS 4060, 4081, 4109, 4240, 4300, 4820, 4840; and SDS 4481. The required elective courses consist of completing a minimum of one course in seven knowledge domains that are relevant to rehabilitation. The seven domains include: Assessment; Human Growth and Development; Abnormal Behavior; Family Systems; Self-Management for Wellness; Social Systems and Disciplines; and Organizational Life. A complete and current listing of the menu of choices for satisfying the completion of required elective courses is available through the undergraduate student advisor. A grade of “C” or better is required for satisfactory completion of all program course work.

Minor

A minor is available in rehabilitation services. Courses required for the minor are: RCS 4081, 4109, 4240; and RCS 4300.

Definition of Prefixes

EDG	—	Education: General
EED	—	Education: Emotional Disorders
EEX	—	Education: Exceptional Child— Core Competencies
EGI	—	Education: Gifted Child
ELD	—	Education: Specific Learning Disabilities
EMR	—	Education: Mental Retardation
EPH	—	Education: Physical and Multiple Handicaps
EVI	—	Education: Visual Impairments
MHS	—	Mental Health Services
RCS	—	Rehabilitative Counseling Services

Undergraduate Courses

EDG 2701. Teaching Diverse Populations (3). Students will 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 will participate in a field-based experience.

EED 4011. Introduction to the Socially and Emotionally Disturbed (3). Designed to introduce students to the history of and evolving trends in providing services for emotionally handicapped children and youths, to investigate theories of causality, and to analyze various approaches for improving academic and social behavior.

EEX 2010. Survey of Special Education (3). To provide the student with a basic understanding of the history, current concepts, and emerging alternative strategies for the special education of all exceptional students.

EEX 3601. Applied Behavior Analysis for Special Educators (3). Corequisite: EEX 3820. Introduction to behavioral principles and procedures useful for managing the behavior of students with handicaps. For majors only.

EEX 3820. Practicum in Direct Observation (2). Corequisite: EEX 3601. Direct observation and recording techniques for analysis of classroom management strategies.

EEX 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

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 4212r. 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). Corequisite: EEX 4847. Provides students with the opportunity to demonstrate effective use of diagnostic skills. For majors only.

EEX 4230. Individualized Instruction for Exceptional Students (3). Corequisite: EEX 4941. Knowledge and performance in implementing individualized instructional practices with exceptional students. For majors only.

EEX 4243. Technology for Students With Disabilities (3). This course introduces classroom applications of technology for students with disabilities.

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). Instructional methods and curriculum to teach mathematics to students with disabilities are examined.

EEX 4280. Foundations of School to Community Transition (3). Prerequisites: EEX 2010; EMR 4011. This course addresses the ways in which schools, agencies, and the community can work cooperatively to prepare students for the transition from their school years to their adult years.

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 will increase learner knowledge and awareness of the characteristics and needs of people with exceptionalities, and acquaint learners with the resources, issues, and trends related to appropriately meeting these needs.

EEX 4834. Introductory Practicum in Special Education (2). This practicum provides experience with individuals with a range of disabilities.

EEX 4840r. Supervised Practicum (1–3). May be repeated to a maximum of six (6) semester hours. Designed as a practicum for the assessment of the profoundly handicapped or the moderately/severely retarded and to provide experience in various aspects of assessment. For majors only.

EEX 4842. Practicum with Students with Low Incidence Disabilities (2). This practicum provides experience with individuals with low incidence disabilities.

EEX 4847. Practicum in Individualized Planning (2). Corequisite: EEX 4223. Diagnose individual exceptional children and plan appropriate instruction.

EEX 4861. Student Teaching in Special Education (11–12). (S/U grade only.) Student teachers will teach students with disabilities for one semester within a public school setting, full-time, and under the supervision of a certified special education teacher.

EEX 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

EEX 4920. Pre-Student Teaching Seminar (1). (S/U grade only.) Prepares last-term majors in special education for the transition from student to professional, lays the groundwork for the culminating activity of student teaching, and acquaints the new professionals with their future role and responsibility to the field of exceptional student education.

EEX 4930r. Special Topics in Special Education (1–3). Topics will vary from term to term. May be repeated to a maximum of nine (9) semester hours.

EEX 4941. Practicum with Students with High Incidence Disabilities (2). This practicum provides experience with individuals with high incidence disabilities.

EEX 4970r. Honors Work in Special Education (3). Prerequisite: Acceptance in honors program. Corequisites: EDF 5481 or EEX 5931 or equivalent. This course is designed to provide qualified upper-division majors in special education

an opportunity to undertake an independent and original research project. May be repeated to a maximum of nine (9) thesis hours with instructor approval.

EGI 4011. Introduction to Gifted and Talented Students (3). Nature and needs of these exceptional children and youth including the special groups of underachieving, culturally diverse, women, and handicapped gifted.

EGI 4230. Educational Strategies for the Gifted and Talented (3). Prerequisite: EGI 4011. Education provisions, procedures, and practices for the gifted.

ELD 4050. Introduction to Specific Learning Disabilities (3). Designed to introduce the student to the changing field of learning disabilities with emphasis on the various theories that have shaped the field.

EMR 4011. Introduction to Mental Disabilities (3). Designed to provide students with an overview of the basic knowledge pertinent to mental disabilities. Special attention is given to the educational, social and psychological aspects of mental disabilities.

EMR 4213. Curriculum-based Academic Assessment and Adaptations for Students With Mental Disabilities (3). Prerequisites: EEX 2010; EMR 4011. This course focuses upon teaching academic skills to students with mild to moderate mental disabilities.

EMR 4360. Functional Reading, Academics, and Life Skills for Individuals with Mental Disabilities (3). This course is designed to prepare teachers to teach functional reading and related academic skills to individuals with mental disabilities.

EMR 4804r. Practicum and Seminar in Mental Disabilities (2). This practicum is required each semester prior to student teaching so that students may apply the knowledge and skills they have learned in lecture courses. May be repeated to a maximum of six (6) semester hours.

EPH 4024. Introduction to the Physically Handicapped (3). Designed as an overview of those with physical handicaps. Medical, psychological, and educational aspects of the disability and their implications for the classroom teacher are presented.

EVI 4011. Introduction to Visual Disabilities (3). 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 Visually Impaired Students (3). Prerequisites: EVI 4011, 4121, 4211. Students are prepared in this course to participate in the comprehensive assessment of individuals with visual impairments, including those students who have multiple disabilities, by using formal and informal instruments and authentic assessment procedures appropriate to the population. Students will be prepared for their future consulting role as members of transdisciplinary assessment teams.

EVI 4121. Functions of the Eye and Implications of Low Vision (3). Introduction to the anatomy and physiology of the human eye and visual mechanism, including its embryologic development. Specific emphasis on the most common eye pathologies in children and adults and their effects on visual functioning.

EVI 4211. Literary Braille (3). Corequisite: EVI 4011. In this course students will develop skills in the preparation of materials for blind students in the literary braille code using a braillewriter and the slate and stylus. Interlining and proof-reading are emphasized.

EVI 4212. Advanced Braille (2). Prerequisites: EVI 4011, 4211. Students preparing to be teachers of blind children will learn to use and teach the Nemeth Code for braille mathematics and will become familiar with braille music, as well as with foreign language and computer codes.

EVI 4220. Introduction to Orientation and Mobility (3). Provides future teachers of students with visual impairments with an appreciation 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 4250. Teaching Skills of Adult Living to Visually Impaired Learners (3). Prerequisite: EVI 4011. The philosophical basis for and the strategies of teaching social, personal management and career development skills to individuals with visual impairments.

EVI 4311. Teaching Reading and Writing to Students with Visual Impairments (3). Prerequisites: EVI 4011, 4211, 4121. Discusses the 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, 4211, 4121. Introduces the strategies and techniques necessary for adapting materials and for supporting students with visual impairments in public schools through direct instruction, consultation and collaborative activities.

EVI 4330. Teaching Students with Visual Impairments and Other Disabilities (3). Introduces the techniques and strategies necessary for meeting the needs of students with visual impairments who have additional disabling conditions. An emphasis will be placed upon working with both blind and low vision students with mental disabilities.

MHS 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

MHS 4001. The Human Services Profession (3). An exploration of the nature of human service work. Analyzes past, present, and future issues in human service work. Human service professions and systems approaches. Personal, career, and family development. The delivery of human services. Program development and evaluation, with a special emphasis upon the rehabilitation process.

MHS 4460r. Crisis Intervention Counseling: Theory and Practice (1-3). Training in basic helping skills for dealing with people in crisis situations, specifically telephone hotline training. May be repeated to a maximum of six (6) semester hours.

MHS 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

RCS 1065. Disability in Western Culture (3). This course provides an understanding of disability and its implications within the context of Western culture; includes definitions of disability; historical and current cultural views; implications of disability for daily life.

RCS 3061. Survey of Life Span Development: Preventive and Interventive Strategies for People with Normal or Abnormal Development, Disabilities, or Disease (4). Course examines the human development, both normal and abnormal of an individual across the entire age span, from psychomotor, cognitive and affective perspectives. Special emphasis is placed on the adolescent, young, adulthood, middle adulthood and late adulthood developmental stages of life.

RCS 4039. Helping Strategies and Case Management in Rehabilitation (3). Training in basic interviewing techniques and case management skills in rehabilitation. Includes case recording, ecological assessment, individual treatment planning, crisis intervention, referral and interdisciplinary collaboration.

RCS 4060. Psychosocial Aspects of Diversity (4). Examines the psychological and the social factors related to adjustment and diverse populations, including minorities, women, persons with disabilities and other adults.

RCS 4081. Medical Aspects of Disability and Chronic Illness (3). An introduction to the structure of medicine in the United States. A survey of medical specialties and terminology; a survey of body systems, common malfunctions, therapeutic services, and restorative techniques.

RCS 4240. Psychosocial Aspects of Rehabilitation (3). An overview of the psychological and social factors related to the adjustment or adaptation to a disability and to the provision of rehabilitation services. The relationship between disability and culture will also be explored.

RCS 4300. Vocational Aspects of Rehabilitation (3). Theories, methods, and practices of career development, utilizing occupational information and labor market trends, understanding of requirements and characteristics of a variety of occupations, job analysis, and job modification and restructuring.

RCS 4820r. Internship in Rehabilitation Services (7-15). (S/U grade only.) Prerequisite: permission of advisor. Full or half semester internship in a human services setting. May be repeated to a maximum of fifteen (15) semester hours.

RCS 4840. Field Experience in Rehabilitation (3). (S/U grade only.) Prerequisite: Advisor permission. Supervised clinical practice in a rehabilitation agency or community service organization. Duties are in activities like interviewing, assessment, case management, service coordination, teaching and coaching of life skills.

RCS 4930r. Special Topics in Rehabilitation Counseling (1-4). Special topics in rehabilitation counseling are studied in depth. May be repeated for a maximum of twelve (12) semester hours.

Graduate Courses

- EED 5223. Advanced Study of Emotional Disturbance (3).
- EED 5320. Precision Teaching Methods for Emotional Disturbances (3).
- EED 5941. Practicum in Emotional Disturbance/Learning Disability (3).
- EEX 5017. Typical and Atypical Early Development (3).
- EEX 5237. Methods for Teaching Students with Low Incidence Disabilities (3).
- EEX 5245. Introduction to Special Education Technology (3).
- EEX 5247. Instructional Environments: Ethical, Legal, Safety, and Classroom Management Considerations (3).
- EEX 5258. Advanced Reading Instruction for Students with Disabilities (3).
- EEX 5285r. Seminar in Transition (3).
- EEX 5286. Preparing Individuals for Transition (3).
- EEX 5455. Assessment and Methods in Early Childhood Special Education (3).
- EEX 5456. Program Development for Young Children with Disabilities (3).
- EEX 5521. Leadership Skills in Exceptional Education (3).
- EEX 5740. Cognitive and Social Implications of Maltreatment of Students with Exceptional Needs (3).
- EEX 5841r. Field Laboratory Internship (1-12). (S/U grade only.)
- EEX 5844r. Leadership Practicum in Special Education (3).
- EEX 5866r. 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 6306. Design and Preparation of Research in Special Education (3).
- 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 6931r. Seminar in Early Childhood/Special Education (3).
- EEX 6935r. Doctoral Seminar in Special Topics (1-3). (S/U grade only.)
- EGI 5936. Seminar for Teachers of the Gifted (3).

EGI 5940.	Mentorship Practicum for the Gifted (5).	EVI 5325.	Technology for Individuals with Visual Impairment (3).	RCS 5620.	Administration and Supervision in Rehabilitation (3).		
ELD 5140.	Advanced Study of Learning Disabilities (3).	EVI 5332.	Social and Vocational Implications of Recreation and Leisure for Visually Impaired (3).	RCS 5845r.	Leadership Practicum in Rehabilitation (3–6).		
EMR 5235.	Teaching the Student with Profound Disabilities (3).	EVI 5931r.	Seminar in Visual Disabilities (3).	RCS 5930r.	Special Topics in Rehabilitation (2).		
EMR 5803.	Advanced Practicum in Mental Disabilities (2).	EVI 5935.	Studies in Research on Individuals with Visual Impairment (3).	RCS 6249.	Advanced Psychological and Social Aspects of Disability (3).		
EMR 5930.	Seminar in Mental Retardation Topics (3).	MHS 5060.	Psychosocial and Multicultural Aspects of Counseling (3).	RCS 6259.	Advanced Assessment in Rehabilitation Counseling (3).		
EPH 5312.	Educational Management of the Physically Handicapped (3).	MHS 5860r.	Supervised Teaching (1–4). (S/U grade only.)	RCS 6400.	Advanced Theories and Principles of Rehabilitation (3).		
EVI 5019.	Foundations of Rehabilitation Teaching of the Blind (3).	MHS 5915r.	Supervised Research (1–4). (S/U grade only.)	RCS 6700r.	Professional Issues in Rehabilitation Counseling (3).		
EVI 5112.	Advanced Assessment of the Visually Handicapped (3).	RCS 5080.	Medical Aspects of Disability (3).	For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the <i>Graduate Bulletin</i> .			
EVI 5131.	Teaching Deaf-Blind/Multisensory Impaired Individuals (3).	RCS 5245.	Psychosocial and Multicultural Aspects of Disability (3).				
EVI 5221.	Teaching Orientation and Mobility for the Visually Impaired (3).	RCS 5250.	Assessment in Counseling and Rehabilitation (3).				
EVI 5222.	Advanced Orientation and Mobility for the Visually Impaired (3).	RCS 5320.	Placement Methods and Techniques (3).				
EVI 5255.	Methods of Independent Living of the Blind (3).	RCS 5410.	Principles and Practices in Rehabilitation Counseling (3).				
						SPEECH: see Communication SPEECH PATHOLOGY/ AUDIOLOGY:	

Department of SPORT MANAGEMENT, RECREATION MANAGEMENT AND PHYSICAL EDUCATION

COLLEGE OF EDUCATION

Chair: Charles Imwold; *Professors:* Imwold, Johnson, Mundy, Ragheb; *Associate Professors:* Beeler, Clement, Dunn, Fletcher, Lynn, Quarterman, Ratliffe; *Assistant Professors:* Jackson, Kent, Mondello; *Assistant in Leisure and Recreation Services:* Suren; *Assistants in Physical Education:* Burdette, Fedena, Martin, Nobles, Reynaud, Walsdorf; *Visiting Assistants:* Bond, Richards; *Professors Emeriti:* Burton, Cannon, Everett, Fox, Jones, Tait, Veller, Wells

The Department of Sport Management, Recreation Management and Physical Education offers a bachelor of science degree in physical education with two majors, one leading to K-12 teacher certification in physical education, and one in sport management.

Students seeking admission to either of the department's majors must have a 2.5 GPA and a "C" in all math and English courses. In addition, students seeking admission for physical education teacher certification must have passing scores on all four subtests of the Florida College Level Academic Skills Test (CLAST). **Passing scores do not include exemption scores.** For both the teacher certification and sports management program, a minimum grade of "C–" or better must be earned in each departmental prerequisite and program course in order to move on to the next course in the program sequence. At any point where a student has a combination of three unforgiven "D"s and "F"s, the student may be dismissed from the program. Please refer to the "Teacher Preparation General Education Require-

ments" section of the "College of Education" chapter in this *General Bulletin* for additional details.

The department utilizes centralized advising procedures and all entering students must be advised by the designated coordinator of undergraduate studies for each specific program.

The following are offered by the Department of Sport Management, Recreation Management and Physical Education:

Physical education
Sport management
Sport administration*

Recreation and leisure services administration +

* graduate only
+ 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 Preservice Teacher Preparation Programs.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making

any decisions based on these prerequisites

The State of Florida has identified common course prerequisites for the following University degree programs. 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 these programs. **Students may be admitted into the University without completing the prerequisites, but may not be admitted into the program.**

The following lists the common prerequisites or their substitutions necessary for admission into these upper-division degree programs:

Leisure Services – Professional

1. DEP X004 or RCS 3061 (this course must be a human growth and development across the life span).

Physical Education (Sports Management)

- Nine (9) semester hours of coursework with a business emphasis;
- Anatomy and physiology I with lab;
- Care and prevention of athletic injuries or anatomy and physiology II with lab;
- Four to five (4–5) semester hours of skill development courses in physical activities;
- Three (3) semester hours of conditioning, fitness and wellness courses in physical activities.

At least one course taken to meet the natural science requirements in liberal studies and/or general program prerequisites must include a laboratory component.

General Requirements for All Physical Education (Teacher Education) Majors

1. EDF 1005;
2. EDG 2701;
3. EME 2040;
4. Anatomy and Physiology I with lab;
5. Care and prevention of athletic injuries or anatomy and physiology II with lab;
6. Four (4) semester hours of skill development courses in physical activity;
7. Three (3) semester hours of conditioning and wellness courses in physical activities.

At least one course taken to meet the natural science requirements in liberal studies and/or general program prerequisites must include a laboratory component.

Recreation and Leisure Services Administration

Coordinator: Cheryl Beeler; *Professors:* Fletcher, Mundy, Ragheb; *Associate Professors:* Beeler, Dunn; *Assistant in Leisure Recreation Services:* Suren

The recreation and leisure services administration program offers courses leading to the bachelor of science (BS) and master of science (MS) degrees in recreation and leisure services administration. The program is nationally accredited by the National Recreation and Park Association's Council on Accreditation. The bachelor's degree is designed to prepare individuals for professional positions in such settings as resort and commercial recreation; employees' recreational division of corporate and industrial companies; college and university student activities and intramurals; health/fitness centers and spas; military morale, welfare, and recreation; hospitals, rehabilitation centers, psychiatric hospitals, and drug/alcohol abuse centers; retirement communities or senior centers; convention and visitors' bureaus; municipal and county recreation departments; and youth service organizations.

With a bachelor's degree from this program, students may qualify for employment as recreation program coordinator, therapeutic recreation specialist, program/activities director or coordinator, assistant recreation center director, athletic/aquatic coordinator, and fitness specialist.

At the graduate level, the master's degree is designed to prepare individuals for administrative and management positions of recreation/leisure/park agencies. Students may select one of many curricular concentrations, such as public administration, gerontology, or college teaching. The graduate curriculum is designed to meet the interests and needs of the students. Course work may be designed for other specialty areas, such as leisure education and counseling, therapeutic recreation, computer applications in leisure delivery systems, and leisure research.

Admission

Applicants for admission to The Florida State University must also apply directly to the recreation and leisure services administration program. Admission to the undergraduate program is based upon: 1) formal application (interview is highly recommended); and 2) successful completion of the required State of Florida common course prerequisites and a passing score on each section of the CLAST. For application materials, contact: *Undergraduate Coordinator, Recreation and Leisure Services Administration, 200 Tully Gym, The Florida State University, Tallahassee, FL 32306-4280.*

Degree Requirements

To earn a bachelor's degree in recreation leisure services administration, students must successfully complete a minimum of sixty (60) semester hours at the upper-division level. The sixty (60) semester hours include: 1) thirty (30) semester hours of required course work—LEI 3161, 3420, 3400, 4500, 4521, 4574, 4602, 4881, 4930; 2) two (2) semester hours of fieldwork—LEI 4921r; 3) fifteen (15) semester hours of internship—LEI 4940r; and 4) thirteen (13) semester hours of elective course work. Students must be certified in First Aid/CPR prior to enrolling in LEI 4940, Practicum in Leisure Services.

Students in therapeutic recreation are required to successfully complete the required core course work, fieldwork, and internship, as well as the following courses: LEI 4703, 4712, 4713, 4816; and abnormal psychology. Therapeutic recreation students are not required to take LEI 4574.

To be eligible for the internship, which is scheduled the last semester of the program of study, students must have earned a 2.5 cumulative GPA in all college course work and a 2.5 GPA in all courses bearing the prefix LEI. A minimum grade of "C-" or better must be earned in all program course work.

Teacher Certification Program

The teacher certification program provides the academic course work and the pre-professional public school experience necessary to become an effective teacher. Course work is arranged in a specific four semester sequence designed to culminate in student teaching. The placement of student teachers will be concentrated in area I. The course of study leading to a baccalaureate degree and teacher certification encompasses three areas of work: 1) required block and foundation courses; 2) required elementary and secondary courses; and 3) professional education requirements. Additionally, all physical education teacher certification majors are required to take TSL 4324, ESOL Instruction in the Content Areas, and teaching of reading.

Students may only enter this program at the beginning of the fall semester and must enroll in the following courses: PEO 4006; and PET 3020, 4300, 4640C, 4710, 4710L.

A GPA of 2.5 is required for admission to student teaching. All students must meet the requirements for admission to teacher education and professional education, which are explained in the "College of Education" chapter of this *General Bulletin*.

Sport Management Program

The sport management program provides academic course work necessary to prepare a person 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 four areas of work: 1) required block and foundation courses; 2) business practices; 3) sports content; and 4) electives. Prerequisites for sport management may be selected from 2000-level business and/or economics classes.

Students may only enter the sport management program at the beginning of the Fall semester.

Noncredential/Nondegree Programs

Coaching Specialization

The course of study for a specialization in coaching includes PEO 2013; PET 2303C, 2622C, 4203, 4300; and at least two of the following: PEO 2624, 3219, 3644; PEP 3304. In addition, students must hold a current cardiopulmonary resuscitation (CPR) certification at the completion of the program. A minimum grade of "C-" must be earned in all program work. Students are provided an additional option of obtaining a national certification within this specialization through the American Coaches Education Program (ACEP).

Definition of Prefixes

DAE	—	Dance Education
LEI	—	Leisure
PEL	—	Physical Education Activities (General): Land—Object Centered
PEM	—	Physical Education Activities (General): Land—Performance Centered
PEN	—	Physical Education Activities (General): Water, Snow, Ice
PEO	—	Physical Education Activities (Professional): Land—Object Centered
PEP	—	Physical Education Activities (Professional): Land—Performance Centered
PEQ	—	Physical Education Activities (Professional): Water, Snow, Ice
PET	—	Physical Education Theory

Undergraduate Courses

Elective Courses for Nonmajors

Note: the courses with the repeat designation of “r” may be repeated for a maximum of two (2) semester hours.

- PEL 1111. **Bowling (1).** (S/U grade only.)
- PEL 1121. **Golf (1).** (S/U grade only.)
- PEL 1124r. **Varsity Golf (1).** (S/U grade only.)
- PEL 1214r. **Varsity Softball (1).** (S/U grade only.)
- PEL 1219r. **Varsity Baseball (1).** (S/U grade only.)
- PEL 1321. **Volleyball (1).** (S/U grade only.)
- PEL 1324r. **Varsity Volleyball (1).** (S/U grade only.)
- PEL 1341. **Tennis (1).** (S/U grade only.)
- PEL 1344r. **Varsity Tennis (1).** (S/U grade only.)
- PEL 1441. **Racquetball (1).** (S/U grade only.)
- PEL 1511. **Soccer (1).** (S/U grade only.)
- PEL 1544r. **Varsity Soccer—Women (1).** (S/U grade only.)
- PEL 1621. **Basketball (1).** (S/U grade only.)
- PEL 1624r. **Varsity Basketball (1).** (S/U grade only.)
- PEL 1644r. **Varsity Football (1).** (S/U grade only.)
- PEL 1646. **Flag Football (1).** (S/U grade only.)
- PEM 1012r. **Adapted Physical Education Activities (1).** Prerequisite: Departmental permission required. Physical education activities designed to enhance the motor ability, fitness, and leisure activities in the handicapped student. May be repeated to a maximum of four (4) semester hours.
- PEM 1101r. **Physical Conditioning (1).** (S/U grade only.)
- PEM 1131r. **Basic Weight Training (1).** (S/U grade only.)
- PEM 1141. **Aerobic Conditioning (1).** (S/U grade only.)
- PEM 1171. **Aerobic Dance (1).** (S/U grade only.)
- PEM 1304r. **Varsity Track (1).** (S/U grade only.)
- PEM 1314r. **Varsity Cross-Country (1).** (S/U grade only.)
- PEM 1405. **Self-Defense/Martial Arts (1).** (S/U grade only.)
- PEM 1952. **Circus Activities (1).** (S/U grade only.)
- PEN 1121. **Basic Swimming (1).** (S/U grade only.)
- PEN 1124r. **Varsity Swimming (1).** (S/U grade only.)
- PEN 1144. **Tarpon (1).** (S/U grade only.)
- PEN 1231. **Basic Sailing (1).** (S/U grade only.)
- PEN 1234. **Blue Water Sailing (1).** (S/U grade only.)
- PEP 1001r. **Contemporary Activities Techniques (1).** (S/U grade only.) May be repeated during the same semester.
- PEQ 1231. **Sailing Instructor (1).** (S/U grade only.)

Courses For Physical Education Majors

- DAE 4300. **Educational Dance (2).** Prerequisites: PET 4710, 4710L. Follows the movement framework for educational dance with a focus on the exploration of themes and the refinement of movement sequences and creative dances.
- PEO 2013. **Sports Officiating (2).** Prerequisites: PET 4300, 4302C.
- PEO 2624. **Theory and Practice of Basketball (2).** Teaching and coaching techniques in basketball including current trends and offensive and defensive systems.
- PEO 3219. **Theory and Practice of Baseball (2).** All phases of baseball technique, strategy, teaching, and coaching procedures.

PEO 3644. **Theory and Practice of Football (2).** Organization, game theory, and the fundamental techniques of playing, teaching, and coaching.

PEO 4006. **Educational Games I (3).** An analysis of fundamental games skills using the content development framework, movement analysis framework and games stages for planning and teaching games content in physical education classes.

PEO 4009. **Educational Games II (3).** Prerequisites: PEO 4006; PET 4300. An analysis of racquet sports and team sports using the content development framework and games stages for planning and teaching games content in physical education classes.

PEP 3304. **Theory and Practice of Track and Field (2).** Concepts of the fundamental techniques in track and field, emphasis on varsity coaching and instructional methods.

PEP 4206. **Educational Gymnastics (2).** Prerequisites: PET 4710, 4710L. Corequisites: PET 4713, 4713L. Follows the movement framework with a focus on developing a variety of gymnastics responses and a broad repertoire of gymnastics movements. Covers the content of a K–12 curriculum.

PEQ 1115. **Water Safety Instruction (1).** Prerequisite: valid Advanced Life Saving Certification.

PET 2303C. **Applied Anatomical and Physiology Concepts (4).** Prerequisite: CHD 3220. Anatomical and physiological functions of the human body are applied to movement and physical fitness. Lecture and laboratory activities relate information to teaching physical education in schools.

PET 2622C. **Care and Prevention of Sport Injuries (3).** Prerequisite: PET 2303C. This course discusses specific sport injuries, their treatment, and preventive procedures.

PET 3020. **Foundations of Physical Education (3).** Acquaints physical education majors with the basis for, heritage of, and current trends in the field of study.

PET 3949r. **Cooperative Education Work Experience (0).** (S/U grade only.)

PET 4022. **Career in Professional Sport (3).** Covers issues related to professional sports including sport agents, contracts, the draft process, salary negotiations, and insurance.

PET 4051. **Human Movement Studies (3).** Explores the developmental, biomechanical, and motor learning principles affecting human movement. Emphasizes movement assessment in field-based settings.

PET 4253. **Lesbian and Gay Sport Studies (3).** This course provides an overview of lesbian and gay people in sport with a historical and contemporary socio-cultural perspective involving both the lesbian and gay sport industry and the mainstream sport industry.

PET 4254. **Gender Issues in Sport and Physical Activity (3).** The course will critically examine the relationship between gender and sport/physical activity.

PET 4259. **Race and Ethnicity in Sport (3).** This course examines the unique role and impact racism and ethnicity have had in the world of sport. Teachers and coaches of all levels of sport organizations are introduced to the realities of bias and prejudice within sport. The experiences of numerous ethnic minority groups and their challenges to participate, compete, coach, manage, lead and own sport organizations in the United States also are examined.

PET 4400. **Managerial, Ethical, and Organizational Aspects of Physical Education (3).** Prerequisites: PET 4713, 4714. Corequisites: PET 4945. This course will be oriented specifically toward an understanding of the following: class management and discipline across K–12 programs; ethical and legal concerns in the profession; organization and administration of physical education; and induction into the profession.

PET 4401. **Administration of Sport and Physical Education (3).** Problems in planning, organizing, and conducting a program in physical education and sports in both school and nonschool settings are covered.

PET 4402. **Facility and Event Management (3).** Students in this course 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.

PET 4432. **Early Childhood Physical Education (3).** Prerequisite: PET 4710. A required course for all physical education majors to be certified K–8. The course

content focuses on the development of preschool and primary grade children. Emphasis on the role of educational games, dance, and gymnastics in the development of motor, cognitive, and affective skills.

PET 4461. **Event and Special Projects (3).** Promotion in Sport. Topics and issues involved in the promotions and marketing of sporting events. An examination of the evolution of large scale corporate marketing strategies.

PET 4462. **NCAA Compliance and Institutional Control (3).** This course prepares students to administer the rules and regulations of the NCAA bylaws.

PET 4463. **Sport Finance (3).** This course provides an introduction to financial strategies related to sport entities and organizations.

PET 4471. **Issues in Sport Management (3).** This course introduces students to the major topics, trends, problems and issues involved in athletics and sport management.

PET 4477. **Human Resource Management in Sport (3).** Prerequisite: Admittance to the Sports Management major program. This course is an introduction to the basic elements of human resources in sport organizations.

PET 4491. **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.

PET 4493. **Ethics in Sport (3).** This course is designed to assist students in self-evaluating, examining and developing a philosophy, values, and moral reasoning skills. Major moral/ethical issues within sport are researched and discussed. Students experience the ethical decision-making process through opportunities for critical analysis by drawing upon their philosophical bases.

PET 4499. **Sport Governance (3).** 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. Concepts on leadership and management related to the sport industry are presented. An outside project enhances the student's understanding of a selected sport organization and its event.

PET 4510. **Tests and Measurements in Physical Education (2).** Prerequisite: PET 3020. Corequisite: PET 4510L. The techniques for measuring and evaluating physical education learning outcomes.

PET 4510L. **Tests and Measurements Practicum (1).** Prerequisite: PET 3020. Corequisite: PET 4510. Practical application of skills and knowledge acquired in PET 4510 through the utilization of technology.

PET 4512. **Assessment in K–12 Physical Education (3).** This course prepares preservice teachers to use skills and knowledge necessary to effectively assess student achievement in K–12 physical education within the cognitive, psychomotor and affective domains.

PET 4625. **Issues in Sports Medicine (3).** Prerequisites: HSC 2400C; PET 3301C. Corequisite: PET 3600. Course covers advanced issues including sports medicine administration, sports medicine pharmacology, advanced assessment techniques and orthopedic surgical observation.

PET 4640C. **Adapted Physical Education (3).** Principles and methods of adapting regular programs and providing special programs of physical education appropriate to needs of handicapped students. Laboratory and fieldwork experiences included.

PET 4710. **Instructional Aspects of Physical Education (2).** Prerequisite: PET 3020. Corequisite: PET 4710L. Instructional methods in physical education emphasizing the physical activity needs of students and effective teaching styles.

PET 4710L. **Physical Education Instructional Practicum (1).** Prerequisite: PET 3020. Corequisite: PET 4710. Focuses on the application of effective instructional methods in the school physical education setting.

PET 4712. **Methods and Materials of Teaching Fitness, K–12 (3).** Prerequisite: Permission of instructor. This course focuses on how to implement a lifetime, health-related physical fitness program in kindergarten through high school physical education classes and in community settings. Students will update their knowledge of exercise physiology, design learning activities, and develop strategies to teach lifetime fitness to children and adolescents.

PET 4713. Physical Education Instruction I, K–12 (3). Prerequisites: PET 4710, 4710L. Corequisite: PET 4713L. Focus is on teaching physical education to upper elementary, middle, and high school students, with instruction on developmental needs, teaching skills, analysis and observation, and curriculum.

PET 4713L. Physical Education Practicum, K–12 (1). Prerequisites: PET 4710, 4710L. Corequisite: PET 4713. Development of effective instructional skills through the planning, teaching, and assessment of experiences with upper elementary, middle, and high school students.

PET 4714. Physical Education Instruction II, K–12 (3). Prerequisites: PET 4713, 4713L. Corequisite: PET 4714L. Focus on teaching physical education to primary elementary and high school students, with instruction or developmental needs, teaching skills, analysis and observation, and curriculum.

PET 4714L. Physical Education Practicum II, K–12 (1). Prerequisites: PET 4713, 4713L. Corequisite: PET 4714L. Development of effective instructional skills through the planning, teaching, and assessment of experiences with primary elementary and high school students.

PET 4765. Principles and Problems of Coaching (3). The study of vital sociopsychological aspects of coaching.

PET 4771C. Applied Physical Fitness Concepts (3). Prerequisites: PET 3020, 4302C. This course is designed to examine techniques of evaluation for physical fitness and health, with a particular emphasis on aerobic capacity, flexibility, strength, and body composition. It entails the design, implementation, and administration of programs for developing physical fitness and lifestyle changes.

PET 4905r. Directed Individual Study (1–3). Undergraduate study of a research problem, not to be used in lieu of a class. May be repeated to a maximum of twelve (12) semester hours.

PET 4930r. Special Topics in Physical Education (1–3). An analysis of selected topics in the field of physical education. May be repeated to a maximum of twelve (12) semester hours.

PET 4940r. Practicum in Physical Education (1–6). (S/U grade only.) Noncertification program. May be repeated to a maximum of ten (10) semester hours (for physical education noncertification majors only.)

PET 4942r. Practicum in Sport Administration (3). For sport management students only. Practical experience is integrated with theoretical concepts in the sport management environment. May be repeated to a maximum of six (6) semester hours.

PET 4945. Student Teaching in Physical Education (9). (S/U grade only.) Prerequisites: PET 4432, 4710, 4713. Corequisite: PET 4401. A one semester school experience in the role of a professional educator.

Recreation and Leisure Services Courses

LEI 1181. Leisure and Recreation: A Cross-Cultural Approach (3). An examination of the leisure and recreation behaviors of people in different cultures. The cultural, political, social, and economic influences on leisure and recreation behaviors will be examined.

LEI 3161. Philosophical, Social, and Behavioral Foundations of Leisure (4). Introduces students to concepts and foundations of the movement of recreation/leisure/play. Discusses dynamic social and cultural forces to concepts which influence leisure.

LEI 3400. Program Planning in Leisure Systems (4). Develop, apply, and evaluate the program planning process of assessment, defining program objectives, development, implementation, and evaluation.

LEI 3420. Analysis and Utilization of Leisure Activities (4). Development and understanding of leisure activities and how these activities meet the needs of individuals in today's society.

LEI 3701. Human Development and Functioning in Leisure (4). Examines the role of human development and functioning for the entire age spectrum, including disabilities.

LEI 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

LEI 4500. Administration of Leisure Systems (4). The course is designed to introduce students to the fundamental concepts, theories, principles, and practices of administering and budgeting for a leisure service agency.

LEI 4521. Supervision of Personnel in Leisure Systems (4). Prerequisites: LEI 3161, 3420, 3701. The course is designed to introduce students to the fundamental concepts, theories, principles, and practices in supervising personnel in leisure delivery systems.

LEI 4574. Design and Delivery of Leisure Programs (3). Designed to provide students an introduction into marketing leisure programs, services, and facilities. Media strategies and applications specific to the leisure field will be studied.

LEI 4602. Planning and Maintenance of Facilities in Leisure Systems (3). Provide basic information for the planning and maintenance of leisure areas and facilities.

LEI 4703. Introduction to Therapeutic Recreation (3). An introductory survey of the field of therapeutic recreation practice including: the study of concepts, history, and philosophy; nature and settings of service delivery; enabling legislation; and roles and functions of therapeutic recreation professionals.

LEI 4712. Clinical Aspects of Therapeutic Recreation (4). In-depth survey of the concepts associated with the clinical application of therapeutic recreation including: medical and psychiatric terminology; etiology, characteristics, and implications of leisure needs by the ill and disabled; adaptive devices and assistive techniques.

LEI 4713. Principles and Procedures of Therapeutic Recreation Practice (3). An in-depth study of principles and practices used in therapeutic recreation service delivery, unique administrative concerns to service participation in health care industries, and professional issues relevant to therapeutic recreation practice.

LEI 4816. Leisure Education (3). This course focuses upon developing an understanding of the goals, objectives and philosophy of leisure education. It also includes the methods and techniques utilized to educate for leisure as well as planning and implementing leisure education in a variety of settings.

LEI 4881. Assessment, Research, and Evaluation in Leisure Systems (3). Enables students to assess leisure functions, interests, and behaviors and teach students to understand and critique research findings in leisure settings.

LEI 4906r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

LEI 4921r. Fieldwork in Leisure Services (1–3). (S/U grade only.) Provides the student an opportunity to gain practical experience in an organized leisure setting. May be repeated to a maximum of six (6) semester hours.

LEI 4930. Senior Seminar in Leisure Studies (1). Prerequisite: LEI 3161. The seminar is designed to introduce the current problems facing the leisure profession and the practitioner and to teach students to effectively discuss issues in a seminar setting.

LEI 4932r. Special Topics in Leisure Services (3). Current topics in Leisure Services are studied in depth. May be repeated to a maximum of nine (9) semester hours.

LEI 4940r. Practicum in Leisure Services (1–5). Full-time experience in a leisure agency under the supervision of a professional practice practitioner. May be repeated to a maximum of thirty (30) semester hours.

Graduate Courses

LEI 5171. Philosophical, Social, and Behavioral Foundations of Leisure (3).

LEI 5185. Current Issues in Leisure (1).

LEI 5530. Problems of Staff Development (3).

LEI 5555. Analysis and Management of Leisure Systems (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 5944r. Fieldwork in Leisure Services (1–3).

LEI 5945r. Supervised Teaching (1–5). (S/U grade only.)

PEO 5042. Education Games I (3).

PEP 5208. Educational Gymnastics (3).

PET 5145. Issues in Physical Education (3).

PET 5252. Gender Issues in Sport and Physical Activity (3).

PET 5257. Lesbian and Gay Sport Studies (3).

PET 5258. Race and Ethnicity in Sport (3).

PET 5295. Sport and the Media (3).

PET 5406. Facility Management in Sport (3).

PET 5415. Administration of Physical Education (3).

PET 5423. Educational Dance (3).

PET 5425. Curriculum Design in Physical Education (3).

PET 5437. Foundations of Movement for Children (3).

PET 5447. Secondary School Physical Education Curriculum Theory and Development (3).

PET 5463. Event and Special Projects Promotion in Sport (3).

PET 5464. Strategic Management for Sport Organizations (3).

PET 5465. Fiscal Management in Sports (3).

PET 5467. NCAA Compliance and Institutional Control (3).

PET 5470. Foundations in Sport Administration (3).

PET 5472. Risk Management in Sport and Physical Activity (3).

PET 5476. Athletic Administration (3).

PET 5478. Issues in Sport Law (3).

PET 5535. Research Methods (3).

PET 5615. Evaluation and Assessment in Adapted Physical Education (3).

PET 5645. Programs in Adapted Physical Education (3).

PET 5715. Effective Teaching in Physical Education (3).

PET 5716. Analysis and Observation of Teaching in Physical Education (3).

PET 5717. Models in Teaching Physical Education (3).

PET 5774. Methods and Materials of Teaching Fitness, K–12 (3).

PET 5906r. Directed Individual Study (1–3). (S/U grade only.)

PET 5912r. Supervised Research (1–4). (S/U grade only.)

PET 5940r. Field Laboratory Internship (1–8). (S/U grade only.)

PET 5942r. Supervised Teaching (1–4). (S/U grade only.)

PET 5947r. Practicum in Sport Administration (3).

PET 6419. Supervision in Physical Education (3).

PET 6466. Seminar in Sport Marketing (3).

PET 6468.	Organizational Theory in Sport (3).
PET 6469.	Leadership and Organizational Behavior in Sport (3).
PET 6494.	Advanced Law in Sport and Physical Activity (3).
PET 6497.	Seminar in Administration of Physical Education and Athletics (3).
PET 6706.	Research on Teaching (3).

PET 6790.	Professional Preparation of Teachers of Physical Education (3).
PET 6931r.	Advanced Topics (1-4).
PET 6938r.	Graduate Research Seminar (0). (S/U grade only.)
PET 6939r.	Seminar in Research on Teaching Physical Education (3).

PET 6969.	Doctoral Qualifying Exam (0). (S/U grade only.)
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For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

Department of STATISTICS

COLLEGE OF ARTS AND SCIENCES

Chair: Myles Hollander; *Director, Statistical Consulting Center:* Zahn; *Professors:* Hollander, Huffer, Leysieffer, Lin, McGee, McKeague, Sethuraman, Zahn; *Associate Professors:* Niu, Song; *Assistant Professors:* Li, Srivastava; *Visiting Assistant Professors:* Bunea, Chattopadhyay, Chicken; *Assistant in Statistics:* Ramsier; *Professors Emeriti:* Basu, Bradley, Marsaglia, Proshan

The Department of Statistics offers programs leading to the bachelor of science (BS) degree (including an honors degree) in statistics with emphases in statistics and probability theory. These are mathematical disciplines that describe concepts of uncertainty in a quantitative way. The disciplines draw inspiration from the many areas to which they are applied. A statistician could be called upon to help decide whether an anesthetic has an adverse health effect upon operating room nurses, recognize images taken by remote sensors, analyze errors of measurement in a scientific experiment, determine public attitudes in an opinion poll, determine if a medical or pharmacological patient intervention is successful, or work with a team to design and analyze an experiment. Random phenomena such as these are handled through the use of probability models, which serve as guides in decision making, interpretation of data, and allocation of resources. Some courses in the curriculum emphasize the construction of probability models, whereas others focus upon the methodology of application of these models.

In the study of statistics, students use and enrich their mathematical expertise and orient their study of the mathematical sciences toward useful and relevant purposes in society. Significant opportunities for well-trained persons with one or more of the specializations of statistics or probability 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. STA 2122 or STA 2171 is a prerequisite for the remaining courses in the series, which are STA 3024, 4102, 4202, 4203, 4222, 4502, and 4702, and 4853.

The Department of Statistics maintains a laboratory for computational vision, a statistical consulting center, a departmental library and reading room, the Wilcoxon Memorial Room, and provides facilities for computation in connection with course work and research. Instruction is available and use of computers is arranged for approved purposes. The statistics department has extensive computing facilities, which include a local area network of microcomputers, printers and a new laboratory for computational vision equipped with high-performance computers and accessories.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. One course for three (3) semester hours (COP prefix) in a computer language (Pascal, FORTRAN, C, C+, or C++);
2. MAC X311;
3. MAC X312;
4. One laboratory-based science course for four (4) semester hours from the following: BSC XXXX/XXXXL or CHM XXXX/XXXXL or PHY XXXX/XXXXL.

Requirements

Please review all college-wide degree requirements summarized in the "College of Arts and Sciences" chapter of this *General Bulletin*.

Requirements for a Major in Statistics

Major

Eighteen (18) semester hours in statistics courses numbered at the 4000 level are required, including STA 4322 and 4442.

Note: STA 2122, STA2171 or STA 3032 may be taken in place of a 4000 level course other than those specified. Additional requirements include CGS 3408 or 3460; MAC 2312, 2313; and MAS 3105. A grade of "C-" or better must be earned in each statistics, mathematics, or computer science course counted toward the major. At least nine (9) semester hours of statistics courses counted toward the major must be taken in the Department of Statistics at The Florida State University. Other statistics courses must be approved by the department.

Options

STA 4322 and 4442 constitute a basic core. Further courses may be selected for emphasis in statistical methodology, statistical theory, probability theory, stochastic processes, or actuarial science (MAP 4170, 4175). Students anticipating graduate study in statistics are encouraged to take additional mathematics courses such as MAA 4226, 4227, and MTG 4302.

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, 2313, 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 Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Statistics

Required are twelve (12) semester hours in statistics courses numbered at the 4000 level, including STA 2122, 2171, or 4442. (**Note:** STA 2122, 2171, or STA 3032 may be considered equivalent to a 4000 level course). 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 (6) semester hours in statistics courses counted toward the minor must be taken in the Department of Statistics at The Florida State University. Other statistics courses must be approved by the department.

Examples of Options

1. A minor in statistical methodology with minimal mathematical prerequisites: STA 2122 or STA 2171, plus eight (8) semester hours selected from any of 4102, 4202, 4203, 4222, 4502, and 4702;
2. A minor with statistical theory as well as methodology: STA 4322 and 4442 or 3032, plus six (6) hours selected from any of 4102, 4202, 4203, 4222, 4502, 4702, and 4853.

Definition of Prefixes

QMB — Quantitative Methods in Business
STA — Statistics

Undergraduate Courses

ISC 3121. **Science, Technology, and Society (3),**

SCE 4939r. **Seminar in Contemporary Science, Mathematics, and Science Education (1).**

Note: for descriptions of the above courses, see interdisciplinary science courses listed in the “College of Arts and Sciences” chapter of this *General Bulletin*.

QMB 3200. **Quantitative Methods for Business Decisions (3).**

STA 1013. **Statistics through Example (3).** Fundamental concepts of statistics including descriptive measures, randomness, estimation of proportions, central tendency, rare event principle, association versus causation, and risks.

STA 2023. **Fundamental Business Statistics (3).** Prerequisite: MAC 1105 or its equivalent. No credit is given for STA 2023 if “C–” or better has been previously earned in STA 2122, 2171, or 3032. High school students who earn a “3” or better on the AP statistics exam will be given credit for STA 2023. Statistical applications in business, involving graphical and numerical descriptions of data, data collection, elementary probability, random variables, binomial and normal distributions, sampling distributions, and confidence intervals and hypothesis tests for a single example.

STA 2122. **Introduction to Applied Statistics (4).** Prerequisite: MAC 1105. Subsequent credit for STA 5126 is not permitted. No credit is given for STA 2122 if a “C–” or better is earned in STA 2171, 3032 or QMB 3200. Only two (2) hours credit given for STA 2122 if “C–” or better previously earned in STA 2023 or 3014. Data collection, sample variation, basic probability, confidence intervals, hypothesis testing, analysis of variance, contingency tables, correlation, regression.

STA 2171. **Statistics for Biology (4).** Prerequisite: MAC 2311. STA 2171 is for biology majors only. Other students must have approval from the Department of Statistics. Only two (2) semester hours of credit are given for STA 2171 if “C–” or better has been previously earned in STA 2023. No credit is given for STA 2171 if a “C–” or better has been previously earned in STA 2122 or 3032, or QMB 3200. 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. **Intermediate Applied Statistics (3).** Prerequisite: STA 2122 or 2171. Course covers linear and multiple regression; one-and-two-way analysis of variance; chi-square

and contingency tables; design, analysis, evaluation and interpretation of statistical models. Well-prepared students can skip STA 3024 and take either STA 4202 or 4203. STA 3024 does not count toward statistics majors or statistics minors.

STA 3032. **Probability and Statistics for Sciences and Engineering (5).** Prerequisite: MAC 2312. Only two (2) semester hours of credit is given for STA 3032 if a “C–” or better previously has been earned in STA 2122, 2171, or 4442. This course will cover 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 4102. **Computational Methods in Statistics I (3).** Prerequisites: At least one previous course in statistics above STA 1013; some previous programming experience; or permission of the instructor. Matlab and a programming language (C/Fortran) will be used. 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 permission of the instructor. Matlab and a programming language (C/Fortran) will be used. A continuation of STA 4102 in computational techniques for linear and non-linear statistics. Statistical image understanding, elements of pattern theory, simulated annealing, Metropolis-Hastings algorithm, Gibbs sampling.

STA 4202. **Analysis of Variance and Design of Experiments (3).** Prerequisites: STA 2122, 2171, 3032, or QMB 3200. Subsequent credit for STA 5206 is not permitted. Only two (2) hours credit will be given for STA 4202 if “C–” or better has been earned previously in STA 3024. One and two-way classifications, nesting, blocking, multiple comparisons, incomplete designs, variance components, factorial designs, confounding.

STA 4203. **Applied Regression Methods (3).** Prerequisites: STA 2122, 2171, 3032, or QMB 3200. Subsequent credit for STA 5207 is not permitted. Only two (2) hours credit will be given for STA 4203 if “C–” or better has been earned previously in STA 3024. General linear hypothesis, multiple correlation and regression, residual analysis, and model identification.

STA 4222. **Sample Surveys (3).** Prerequisite: A course in statistics above STA 1013 or consent of instructor. Simple, stratified, systematic, and cluster random sampling. Ratio and regression estimation, multistage sampling.

STA 4321. **Introduction to Mathematical Statistics (3).** Prerequisite: MAC 2313. Subsequent credit for STA 5354 is not permitted (for nonmajors only). Distributions of random variables, conditional probability and stochastic independence, special distributions, sampling distributions, estimation, tests of hypotheses, regression, one way ANOVA. Credit for STA 4322 is not permitted.

STA 4322. **Mathematical Statistics (3).** Prerequisites: STA 4442; MAC 2313. Subsequent credit for STA 5325 is not permitted. Sufficiency, point estimation, confidence intervals, hypothesis testing, regression, linear models, Bayesian analysis.

STA 4442. **Introductory Probability I (3).** Prerequisite: MAC 2312. Subsequent credit for STA 4442 is not permitted if “C–” or better has been previously earned in STA 3032. Subsequent credit for STA 5440 is not permitted. Random variables, probability distributions, independence, sums of random variables, generating functions, central limit theorem, laws of large numbers.

STA 4502. **Applied Nonparametric Statistics (3).** Prerequisite: A course in statistics above STA 1013 or consent of instructor. Subsequent credit for STA 5507 is not permitted. Application of nonparametric tests, estimates, confidence intervals, and multiple comparison procedures.

STA 4664. **Statistics for Quality and Productivity (3).** Prerequisites: STA 4322 or consent of instructor and one of: STA 2122, 2171, 3032, or 4442. Deming’s ideas, graphical methods, control charts, design of experiments for product and process improvement.

STA 4702. **Applied Multivariate Analysis (3).** Prerequisite: STA 4203 or 4322. Subsequent credit for STA 5707 is not permitted. Principal components and factor analysis, canonical correlation, discriminant analysis, multivariate analysis of variance, multidimensional contingency tables, cluster analysis.

STA 4853. **Time Series and Forecasting Methods (3).** Prerequisites: QMB 3200 or equivalent; STA 2122, 2171, 3032; knowledge of PC’s or UNIX. 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 (12) semester hours.

STA 4930r. **Selected Topics in Statistics, Probability, or Operations Research (2–3).** May be repeated to a maximum of twelve (12) 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 adviser is mandatory. May be repeated to a maximum of six (6) semester hours.

Graduate Courses

- STA 5106. Computational Methods in Statistics I (3).
- STA 5107. Computational Methods in Statistics II (3).
- STA 5126. Introduction to Applied Statistics (4).
- STA 5166. Statistics in Applications I (3).
- STA 5167. Statistics in Applications II (3).
- STA 5168. Statistics in Applications III (3).
- STA 5169. Advanced Applied Statistics (3).
- STA 5176. Statistical Modeling with Application to Biology (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 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 5619. Operations Research: Linear and Dynamic Programming (3).
- STA 5666. Statistics for Quality and Productivity (3).
- STA 5676. Reliability Theory and Life Testing (4).
- STA 5707. Applied Multivariate Analysis (3).
- STA 5746. Multivariate Analysis (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 (1–5). (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 5936.	Graduate Orientation Seminar (1). (S/U grade only.)
STA 5939.	Introduction to Statistical Consulting (3). (S/U grade only.)
STA 5940r.	Supervised Consulting (1–3). (S/U grade only.)
STA 5941r.	Supervised Teaching (1–5). (S/U grade only.)
STA 6246r.	Advanced Topics in Applied Statistics (2–3).

STA 6346.	Advanced Statistical Inference (3).
STA 6466.	Advanced Probability (3).
STA 6468r.	Advanced Topics in Probability and Statistics (2–3).
STA 6555.	Nonparametric Curve Estimation (3).
STA 6709.	Spatial Statistics (3).
STA 6858.	Advanced Time Series Analysis (3).

STA 6906r.	Directed Individual Study (1–12). (S/U grade only.)
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For listings relating to graduate course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

TAX ACCOUNTING: see Accounting

Department of TEXTILES AND CONSUMER SCIENCES

COLLEGE OF HUMAN SCIENCES

Chair: Rinn M. Cloud; *Professors:* Cloud, Davis, Goldsmith, Moore; *Associate Professors:* Fiorito, Grise, Heitmeyer; *Assistant Professors:* Black, Kind; *Visiting Assistant Professor:* Kim; *Associate in Merchandising:* McLaughlin; *Assistant in Apparel Design:* Welch; *Visiting Instructor:* Hattaway; *Professors Emeriti:* Adam, Avery, Edgeworth, Kittles, Kuehne, Warden; *Eminent Scholar:* Susan Watkins

From the hustle and bustle of the New York garment district to a planned community in the Appalachian mountains, from Rodeo Drive in California to the Kennedy Space Center in Florida, graduates from the Department of Textiles and Consumer Sciences (TCS) find opportunities for exciting careers with apparel, textile, retailing and residential housing firms.

Students seeking a BS degree may select from four majors: apparel design and technology, merchandising, textiles, or housing (with emphasis in residential housing management, residential design evaluation, or interior products retailing). These stimulating areas of study allow the student to combine an interest in business, art, science, and/or technology with direct, practical application to the design, distribution, merchandising and management of fashion products, residential housing and other consumer goods and services. Students prepare for executive management positions in industry or government through which they address the needs of individuals, families, and communities for fashionable and functional apparel and textile products, profitable retail businesses, and successful residential environments.

Department facilities include leading-edge technology for each major. The **Lectra Computer-Aided Design Laboratory** includes 10 workstations for computer-aided design and manufacturing of apparel and textiles. The **Burdines Merchandising Technology Laboratory** provides hands-on experience with the latest in merchandise presentation and inventory management technology. The latest color communication technology along with modern chemical and physical testing facilities and computerized testing equipment are found in the **Textile Evaluation and Research Laboratory Complex**. Three-dimensional structural design soft-

ware in the CHS **Multimedia Lab** allows housing students to plan residential environments to meet diverse needs for single and multi-family dwellings.

The **Historic Costume and Textiles Laboratory** houses an outstanding teaching and study collection of historic costumes dating from the early 1800's. The historic textiles collection includes the unique Carter Collection of pre-Columbian Peruvian textiles from the late 1400's.

An excellent teaching and research faculty provides students with a challenging academic environment. Due to their strong commitment to the personal and professional development of students, the faculty provide outstanding academic advising for students. Honors in the major projects and other directed individual study experiences allow students who meet eligibility requirements to pursue particular areas of individual interest. Team projects, computer projects, field trips, and speakers from the textile, apparel, housing, and retail industries are a regular part of the learning environment. Internships are required in the merchandising and housing programs, but are optional in other majors. The highly popular TCS summer study abroad program provides unique opportunities for students to study global aspects of the field while visiting international sites. Student organizations such as Fashion, Inc., the Collegiate Merchandising Association, the student chapter of the American Association of Textile Chemists and Colorists, and the Residential Sciences Organization, supplement classroom learning by providing opportunities to develop leadership skills in professional settings.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on "Academic Reference Manual." Select the 2003-2004 catalog year under the "Common Prerequisites Manuals" subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in

a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

Apparel Design and Technology

1. One course in art history or appreciation (ARH prefix) for three (3) semester hours;
2. CTE X310;
3. CTE X401;
4. FAD X230;
5. ECO X013;
6. ECO X023;
7. PSY X012.

Merchandising

1. ACG X021;
2. CGS X060;
3. CTE X312;
4. CTE X401;
5. ECO X013;
6. ECO X023;
7. FAD X230;
8. PSY X012.

Textiles

1. Two courses in chemistry (CHM prefix) for six (6) semester hours or two courses in physics (PHY prefix) for six (6) semester hours;
2. CTE X312;
3. CTE X401;
4. ECO X013;
5. ECO X023;
6. FAD X230;
7. Two courses in mathematics (MAC prefix) for six (6) semester hours;
8. PSY X012.

Housing

1. ECO X000;
2. FAD X230;
3. PSY X012.

Note: contact the department for additional information.

Honors in the Major

The Department of Textiles and Consumer Sciences offers a program of 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 Program and Honor Societies" chapter of this *General Bulletin*. Interested students who meet eligibility requirements should discuss this opportunity with their faculty advisor early in their junior year.

Requirements for Majors

Students are eligible to enter the Department of Textiles and Consumer Sciences when they have met the University requirements for transfer to an upper-division program, including an overall GPA of 2.0 and completion of all math requirements. A separate application to the department is not required.

Students in the merchandising and housing majors must achieve and maintain a GPA of 2.4 to remain in good standing in the program, to intern, and to graduate. Students in other departmental majors must maintain a GPA of 2.3 to intern and to graduate. Each student is assigned an advisor and is expected to meet with the advisor and/or attend group advising sessions each semester. Advisors assist students with the proper sequencing of courses and provide other course planning and career guidance.

All students must meet the requirements of the College of Human Sciences core as well as those of their particular major at the time they enter the major.

College of Human Sciences Core

All students in the department are required to complete the College of Human Sciences core requirements consisting of the following eight (8) semester hours: HOE 3050 (2), FAD 2230 (3), and one three (3) semester hour course in the college outside their major field of study **to be selected from a list of approved courses available from the department.**

Apparel Design and Technology

Apparel design and technology is a highly competitive but rewarding field for the creative individual. A successful designer is able to predict consumer reaction and to work within the financial constraints of the production and manufacturing process to design apparel that is both fashionable and functional. The curriculum prepares students to apply the elements and principles of visual design to meet the physical, social, psychological, and aesthetic apparel needs of individuals. Graduates seek positions in major design centers such as New York, Atlanta, Dallas, Miami, or Los Angeles, or work with apparel firms throughout the United States or abroad.

Typical starting positions include assistant designer, stylist, assistant product development specialist, and product manager.

Design courses are sequenced such that it requires a minimum of seven regular (non-summer) semesters, beginning with a spring semester, to complete studio courses. The first course in the sequence, CTE 1310, may be exempted by examination and replaced with an additional professional elective. See department for details prior to the first spring semester. A grade of "C-" or better must be achieved in all courses required for the major. Detailed curriculum guide sheets and a sequencing plan are available through departmental advisors. Students are expected to meet the curriculum requirements in place, at the time they enter the major. An acceptable portfolio and a 2.3 GPA are also required to remain in good standing, to intern and to graduate.

Merchandising

Merchandising prepares students for entry-level retail management and buying positions in a variety of exciting retailing and merchandise-related organizations. The curriculum emphasizes retail merchandise management and analytical skills associated with the retail buying, distribution, and merchandising of all consumer goods. Internships within the retail industry or with vendors provide real-world business experiences. Graduates of the program are sought by recruiters from the top retail firms. The recruiters visit campus to give presentations and interview students who may be interested in joining their organizations.

Completion with a grade of "C-" or better in MGF 1106 or 1107 or MAC 1102 or 1105 is a prerequisite to all merchandising courses. A grade of "C-" or better must be achieved in all courses required for the major. Detailed curriculum guide sheets and a sequencing plan are available through departmental advisors. Students are expected to meet the curriculum requirements in place, at the time they enter the major. A GPA of 2.4 is required to remain in good standing, to intern and to graduate.

Internship

Merchandising students are required to complete an internship (CTE 4882) during one semester of their senior year. The internship provides the student with a chance to apply classroom learning to actual work experience. A student must have an overall University GPA of 2.4 in order to take CTE 4822, to take the intern block courses and to be eligible for interning at the completion of the block courses. In addition, the student must have completed all liberal studies requirements including CLAST; have senior standing; and have completed CTE 1401, 1401L, 3201, 3763, 3806, 3835, 4822; and MAR 3023 (all with a "C-" or better.) Eligibility for a buying internship requires completion of CTE 4822 with a grade of "B-" or better. Application for internship must be made by the student one year prior to the intern semester. Additionally, an intern clearance form and graduation check must be completed with the academic advisor the semester before the scheduled internship.

Three merchandising block courses and an intern preparation course are taken during the first half of the intern semester. All material normally covered in a full semester, including the final examination, is completed during the accelerated period. The second half of the semester is the off-campus internship or practicum. The Department of Textiles and Consumer Sciences is responsible for assisting students in acquiring the internship positions and, through a process explained during the intern block course work, for approving the placement of students. The intern may be paid as an employee by the company or may not receive compensation, depending on the policy of the host company. During the internship, the student is responsible for any assignments given by the department and the retail organization. The interning student is also responsible for housing and relocation arrangements and expenses. Each intern is cooperatively evaluated by both the company and the TCS intern supervisor.

To assure a placement that best meets the professional needs of each student, the department has recruited retail organizations over a wide geographic area. Applicants for the internship are generally not assigned to their home cities or to the immediate or general vicinity of the campus. Candidates are advised that the Department of Textiles and Consumer Sciences exercises the final responsibility for identifying the internship semester and the company in which the student will intern. Submission of an application by a candidate is an agreement to accept an assignment in a location where the objectives of the internship can best be achieved. Failure to accept an assignment relieves the Department of Textiles and Consumer Sciences and the University of any further responsibility to provide an internship.

A candidate for internship is expected to meet the standards set by pertinent state laws and by the cooperating firms. Candidates should be aware that, consistent with applicable law, information pertaining to all public records (such as arrest and/or conviction in a court of law) may be routinely furnished to the cooperating stores as well as to prospective employers. The Department of Textiles and Consumer Sciences will take all reasonable steps to place a student in an internship but will not be liable if a student cannot be placed.

Textiles

The textiles program prepares students for a wide variety of challenging careers in textile product development, quality assurance, or textile testing and analysis and provides an excellent base for graduate studies. Students gain an understanding of the many factors affecting textile product performance, consumer demand, and choice of textile products. They obtain a strong background in textile science including fiber, yarn, fabric, color, and finish technology. Product development concepts and principles are applied to a wide range of softgoods products with particular emphasis on apparel and interior textiles. Students who minor or double major in merchandising may also find employment in textile marketing.

A grade of “C–” or better must be achieved in all courses required for the major. Detailed curriculum guide sheets and a sequencing plan are available through departmental advisors. Students are expected to meet the curriculum requirements in place, at the time they enter the major. A GPA of 2.3 is required to remain in good standing and to graduate.

Housing

The housing major focuses on the design and management of residential environments. Students may select from three areas of emphasis: residential housing management, residential design evaluation, and interior products retailing. Regardless of emphasis, an internship is required. The housing program is supported by an advisory board with representatives from residential property management firms, residential design firms and their vendors.

The residential housing management emphasis combines an interest in the residential environment with the business aspects of developing and managing residential properties. Internships and entry-level executive management positions are available throughout Florida and the nation. Graduates may choose to work in one of several residential settings including apartment communities, student housing, affordable housing, military housing, retirement communities, and other multi-family environments. Career tracks include community manager, multi-property supervisor, marketing and training, or asset manager.

Students with interest in the design aspects of residential housing may emphasize residential design evaluation. In this emphasis, students learn to critically analyze housing needs of diverse populations and to assess the functionality and aesthetics of various design solutions to meet those needs. Coursework explores the effects of residential design on physical characteristics such as energy use, as well as its effects on the social and psychological health of individuals and families. Internships and entry-level positions are available with residential design and construction firms, residential property management companies, and government agencies.

An emphasis in interior products retailing combines housing courses with a minor in retail management. Students prepare for entry-level management positions with home and interior products retailers and interior decorator firms. Internships are available across a wide geographic area. For guidelines regarding the retail management minor and its internship requirements, please refer to the ‘Minor In Retail Management’ subsection below.

A grade of “C–” or better must be achieved in all courses required for the major. Detailed curriculum guide sheets and a sequencing plan are available through departmental advisors. Students are expected to meet the curriculum requirements in place, at the time they enter the major. A GPA of 2.4 is required to remain in good standing, to intern and to graduate.

Requirements for Minors

Minor in Consumer Products and Process

This minor provides basic knowledge of selected consumer products and the process by which they flow to the consumer. It is useful to anyone in a career providing goods or services to consumers or families.

Requirements. COA 3151; CTE 1401, 3806, and HHD 3120; plus two courses from the following: COA 4131; CTE 3602, 4460; HHD 3130; HME 4221.

Minor in Retail Management

Due to the multifaceted nature of their operations, retail companies hire graduates from a wide variety of majors but give preference to those with retail training and experience. The minor in retail management focuses on store management, providing students with a basic foundation in retail store operations and merchandise management. The minor consists of eighteen (18) semester hours (excluding prerequisites) including an internship in a retail setting. Prerequisites for the minor are ACG 2021 or STA 1013 or 3014; ECO 2013 or 2023; MGF 1106 or 1107 or MAC 1102 or 1105 with a “C–” or better; and MAR 3023. In the two semesters prior to the intern semester, students must complete the first six (6) semester hours of the minor, CTE 3806 and 4822, respectively.

Students must have completed at least ninety (90) semester hours, including the above listed courses, and have at least a 2.4 GPA to be eligible to enroll in CTE courses beyond CTE 3806 and to intern. During the semester of the internship, the students complete CTE 4811, 4882 (five [5] semester hours), 4890, and 4892 (one [1] semester hour). Please read the information regarding internships for merchandising majors that describes how the intern program works and the policies under which it operates. **Students desiring to minor in retail management should make an appointment with the department’s intern coordinator as soon as possible after reaching junior status.**

Minor in Textiles

This minor imparts basic knowledge in the area of textile science to students in other disciplines such as housing, interior design, chemistry, engineering, criminology, and communication. The requirements include CTE 1401, 1401L, 3784, 4441C or 4442C, 4460, and one additional course to be selected from CTE 3431, 4421, 4441C, 4442C. Departmental majors who desire a minor in textiles must take at least twelve (12) semester hours not required in their major.

Minor in Housing

At least twelve (12) semester hours in the housing area are required for a minor. HHD 3120 and 3130 are required, plus six (6) additional semester hours of the student’s choice from the following courses: HHD 3230, 3820, 4250, 4136; CTE 1401.

Definition of Prefixes

COA	—	Consumer Economics
CTE	—	Clothing, Textiles and Merchandising
HEE	—	Home Economics Education
HHD	—	Housing
HME	—	Home Management
HOE	—	Home Economics: General

Undergraduate Courses

COA 3151. Consumer Competence in a Complex Society (3). Improving levels of living through increased consumer competence. The consumer movement and current issues.

COA 4131. Family Financial Analysis (3). Prerequisites: Junior standing, economics recommended. Principles and problems of money management, credit, insurance, housing, transportation, taxes, and investments.

COA 4905r. Directed Individual Study in Family Economics and Home Management (1–3). May be repeated to a maximum of six (6) semester hours.

COA 4935r. Special Topics in Consumer Economics: Topics Vary (3–9). Study of various consumer or resource management issues/trends. May be repeated to a maximum of twelve (12) semester hours as topics vary.

COA 4944r. Consumer Education Practicum (1–6). A working/learning experience in consumer affairs. May be repeated to a maximum of six (6) semester hours.

CTE 1310. Basic Apparel Construction (3). Basic methods of apparel construction using hand and machine sewing techniques. Open to apparel design and family and consumer sciences education majors only. (Spring semester only.)

CTE 1401. Introductory Textile Science (3). Introduction to physical and chemical aspects of fibers, yarns, fabrics, finishes, and textiles coloration. Interrelationships between textile characteristics, properties and end-use requirements.

CTE 1401L. Apparel Textiles Laboratory (1). Prerequisite or corequisite: CTE 1401. Laboratory identification and analysis of apparel textiles for end-use performance. Hands-on experience in the identification and analysis of fibers, yarns, fabrics, finishes, and textile coloration.

CTE 3201. Visual Design in Clothing and Textiles (3). Introduction to design as process and product; clothing and textiles applications of functional, structural, and decorative design; optical illusions; art elements and principles; design analysis.

CTE 3319. Intermediate Apparel Construction (3). Prerequisite: CTE 1310 (“C–” or better). Corequisite: CTE 3742. Intermediate principles and techniques of apparel construction using original student design and pattern work. Open to apparel design majors only. (Fall semester only.)

CTE 3341. Advanced Clothing Construction (3). Prerequisites: CTE 1401, 1401L, 3201, 3319, 3742 (all “C–” or better). Traditional and contemporary techniques for the construction and design of tailored and nontailored garments. Open to apparel design majors only. (Spring semester only.)

CTE 3431r. Textile Product Development (3–6). Prerequisite: CTE 1401. Topics in textile product development. Focus on stages of product development for specific end-use areas. May be repeated to a maximum of six (6) semester hours when topics vary.

CTE 3515. History of Clothing and Textiles I (3). Clothing and textiles as a reflection of the arts, customs, economy, and religion of the times from the beginning of recorded history to the 15th century, through those areas of the world having major influence on the development of Western dress.

CTE 3516. History of Clothing and Textiles II (3). Clothing and textiles as a reflection of the arts, customs, religion, technological development, and economy of the times covering Western dress from the 15th century to the present.

CTE 3602. Sociopsychological Aspects of Clothing (3). Introduction to the behavioral aspects of clothing. Behavioral theories that govern the use of clothing in various cultural contexts.

CTE 3734. Fashion Design and Illustration (3). Prerequisites: CTE 1310, 1401, 1401L, 3201, 3319, 3742 (all “C–” or better). Developing skills and techniques to visually present creative apparel design. Open to apparel design majors only. (Spring semester only.)

CTE 3742. Flat Pattern Design (3). Pre- or corequisites: CTE 1401, 1401L, 3201, 3319. Theories of pattern design using flat pattern techniques to create fashionable apparel. Open to apparel design majors only. (Fall semester only.)

CTE 3763. Fundamentals of Apparel Evaluation (3). Prerequisite: CTE 1401, 1401L, 3201. Quality evaluation of apparel products in relation to performance and price.

CTE 3784. Apparel Production (3). Prerequisites: CTE 1401, 1401L, 3806, and 3341 or 3763. Analysis of apparel production methods and related functions such as the role of the designer, forecasting fashion, and garment costing.

CTE 3806. Merchandising Principles (3). 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. Career opportunities in retail organizations.

CTE 3835. Merchandise Presentation and Inventory Analysis (3). Prerequisite: CTE 3806. 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 Burdines Merchandising Technology Laboratory.

CTE 3881. Pre-Professional Merchandising Field Experience (3). Prerequisites: CTE 1401, 1401L, 3201, 3341 or 3763, 3806. This optional pre-internship course is designed to introduce the student, prior to the intern block, to a hands-on approach to basic retail merchandising in the following areas: selling, merchandising, product knowledge, inventory control and management.

CTE 4421r. Advanced Topics in Textiles (3–9). Prerequisites: CTE 1401, 1401L. Topics of current technology and research in textile science. Specific topics will vary. May be repeated to a maximum of nine (9) semester hours when topics vary.

CTE 4441C. Textile Performance and Analysis (3). Prerequisites: CTE 1401, 1401L. Physio-chemical evaluation of textile materials for specific end uses and compliance with industry specifications, certified-performance programs, and government regulations. Emphasis on properties influencing color and color loss, moisture content, detergency and refurbishment, weathering, and other physio-chemical properties that influence safety and functional performance. (Fall semester only.)

CTE 4442C. Textile Testing and Evaluation (3). Prerequisites: CTE 1401, 1401L. Physical/mechanical evaluation of textile materials for specific end uses and compliance with industry specifications, certified-performance programs, and government regulations. Emphasis on strength, elasticity, flexibility, frictional wear, thermal transmission/resistance and other physical/mechanical properties that influence durability and comfort. (Spring semester only.)

CTE 4460. Textiles in the Global Economy (3). Prerequisites: CTE 1401; one economics course. Economic factors of production, distribution, and consumption of textile products. The impact of legislation, regulations, and international trade on the global textile and apparel market. (Spring/Summer semesters only.)

CTE 4712. Special Problems in Clothing Design (3). Prerequisites: CTE 3341, 3734, 3784, 4752 (all “C–” or better). Functional and creative designs for individuals with special needs. Research and problem solving in a specialized area of apparel design. Open to apparel design majors only. (Spring semester only.)

CTE 4725r. Advanced Apparel Design (3–6). Prerequisites: CTE 3341, 3734, 4712, 4752, 4773 (all “C–” or better). Creative designing, including integration of various advanced design methods to create appealing, fashionable and functional apparel. May be repeated to a maximum of six (6) semester hours. Open to apparel design majors only.

CTE 4752. Design Through Draping (3). Prerequisites: CTE 3341, 3734 (both “C–” or better). The fundamentals of draping on the human form as a method of fashion design. Open to apparel design majors only. (Fall semester only.)

CTE 4773. Computer Applications in Apparel Design (3). Prerequisite: CTE 3341, 3734, 3784, 4752 (all “C–” or better). This course examines the use of the computer as a de-

sign tool, to conceptualize apparel design ideas and create original artwork, patterns, and markers. Open to apparel design majors only. (Spring semester only.)

CTE 4811. Merchandising Outlets (3). Prerequisites: CTE 3806, 4822; MAR 3023 (all “C–” or better); senior standing; 2.4 GPA. Study of retail firms for fashion merchandising, emphasizing organizational structure and operational methods. This course is part of the intern block for merchandising majors and minors.

CTE 4822. Quantitative Merchandising Management (3). Prerequisites: CTE 3806; MGF 1106 or 1107 or MAC 1102 or 1105 (all “C–” or better); 2.4 GPA. Principles of effective merchandising management through mathematical procedures. Examines problems and formulates solutions in merchandise buying: planned stocks, open-to-buy, markups, markdowns, and other buying formulas. Must be taken in Summer or semester immediately prior to intern block.

CTE 4826. Merchandising Buying (3). Prerequisites: CTE 1401, 1401L, 3201, 3341 or 3763, 3806, 4822; MAR 3023; (all “C–” or better); 2.4 GPA. 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 4832. Family-Owned Business: Issues and Trends (3). Discussion of issues resulting from the interaction between a family and the business that is owned by that family. Guest speakers include family business owners, bankers, accountants, lawyers and government officials who deal with family businesses.

CTE 4882. Professional Merchandising Internship (5). (S/U grade only.) Prerequisites: CTE 3806, 4822; MAR 3023 (all “C–” or better); 2.4 GPA. Pre- or corequisite: CTE 4811, 4890, 4892. An internship in a retail setting giving the student an understanding of merchandising functions by positioning the student in retail management, buying, or product development. Both professional development and career preparation are emphasized. This course is part of the intern block for merchandising majors and minors.

CTE 4890. Executive Merchandising Management (3). Prerequisites: CTE 3806, 4822; MAR 3023 (all “C–” or better); 2.4 GPA. Roles and responsibilities of executive merchandising managers in retail culture; critical competitive challenges in the global, quality, social, and technological environment of various retail settings. This course is part of the intern block for merchandising majors and minors.

CTE 4892. Intern/Career Preparation (1). Prerequisites: CTE 3806, 4822; MAR 3023 (all “C–” or better); 2.4 GPA. Pre- or corequisites: CTE 4811, 4890. Preparation for merchandising internships and retail careers. Professional development and responsibilities of interns and executive trainees in retail operations. This course is part of the intern block for merchandising majors and minors.

CTE 4905r. Directed Individual Study (1–6). May be repeated to a maximum of six (6) semester hours.

CTE 4937r. Special Topics (1–3). Analysis of current issues and practices in textiles and consumer sciences. May be repeated to a maximum of twelve (12) semester hours as topics vary.

CTE 4940. Apparel Design Internship (6). (S/U grade only.) Prerequisite: CTE 4725. This course is an internship in the apparel industry, giving students a better understanding of apparel design functions by positioning students in apparel design and manufacturing. The internship will incorporate applied problems in apparel design and manufacturing, emphasizing student participation in business and industry.

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 (9) semester hours. A minimum of two semesters is required to complete an honors project.

HHD 2152. Multicultural Perspectives in Residential Environments (3). Survey of cultural factors affecting how humans develop and inhabit ancient and contemporary residential environments of the world, including lifestyle, social structure, economic development, political and legal systems, environmental/ecological settings and technology.

HHD 3120. Principles of Housing (3). Social, economic, and policy aspects of residential environments including supply-demand mechanisms, constraints upon individuals and families, government programs, consumer protection, and housing finance. (Fall semester only.)

HHD 3130. Evaluation of Housing Design (3). Evaluation of residential environments including housing type; space planning; special needs; floor plan design; and energy conservation. Basic design of residential housing including historic styles. (Fall semester only.)

HHD 3230. House Plans, Materials, and Construction (3). Prerequisites: HHD 3120, 3130. Traditional and innovative materials and methods of construction, plans reading, rehabilitation, and remodeling of single and multi-family residential structures. (Spring semester only.)

HHD 3820. Introduction to Housing Management (3). Prerequisite: HHD 3120. Basic principles in the management of residential housing with focus on the roles and responsibilities of the property manager for multi-family housing units. (Spring semester only)

HHD 4135. Accessible Housing (3). Prerequisites: HHD 3120, 3130. An analysis of residential housing needs and constraints for the elderly and persons with disabilities including housing design features and barrier-free design, community services, housing options, and public policy.

HHD 4250. Housing Designs and Human Behavior (3). Prerequisites: HHD 3120, 3130. The interrelationship between the built environment and the behavior of man including physical, psychological, and social needs.

HHD 4905r. Directed Individual Study in Housing (1–6). May be repeated to a maximum of six (6) semester hours.

HHD 4940r. Internship in Housing (1–6). (S/U grade only.) Prerequisites: Housing majors only with grade of “C–” or better in HHD 3120, 3130, 3230, 3820; 2.4 GPA. Supervised practical field experiences in various areas of housing professions. May be repeated to a maximum of nine (9) semester hours.

HME 4221. Family Resource Management (3). Analysis of family decision making, goals, values, and resources.

HOE 3050. Developments and Trends in Home Economics (2). Course covers professionalism, career awareness, the job market, and current trends and developments in the human sciences.

HOE 3330. Human Sciences and Human Development: Global Perspectives (3). A study of the uniformity of basic human needs worldwide and the diverse ways of meeting them according to culture, climate, and resources using family as the core coordinating and delivery system.

Graduate Courses

- COA 5150. Family Economics (3).
- COA 5906r. Directed Individual Study (1–3). (S/U grade only.)
- COA 5912r. Supervised Research (1–3). (S/U grade only.)
- COA 5942r. Supervised Teaching (1–3). (S/U grade only.)
- COA 5945r. Consumer Education Practicum (3–6).
- COA 6936r. Special Topics: Consumer Economics or Resource Management—topics vary (3–9).
- CTE 5426. Recent Developments in Textiles (3).
- CTE 5535r. Advanced History of Costume (3).
- CTE 5536r. Selected Studies in Historic Textiles (3).
- CTE 5605. Theoretical and Cultural Aspects of Clothing (3).
- CTE 5729. Experimental Clothing Design (3).
- CTE 5754r. Advanced Draping (3).
- CTE 5760r. Creative Design: Exhibition and Competition (3).
- CTE 5805. Current Trends in Fashion Merchandising (3).
- CTE 5815. Retail Technologies (3).
- CTE 5816. Merchandising Organization (3).

CTE 5828.	Merchandising Buying (3).
CTE 5833.	Family-Owned Businesses: Issues and Trends (3).
CTE 5834.	Merchandising Theory and Research (3).
CTE 5884.	Advanced Fashion Merchandising Practicum (4). (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 5942r.	Supervised Teaching (1–3). (S/U grade only.)
CTE 6900r.	Readings in Clothing and Textiles (1–3). (S/U grade only.)
CTE 6932r.	Clothing and Textiles Seminar (1).
CTE 6936r.	Special Topics in Clothing/Textiles/Fashion Merchandising (3).
HEE 5347.	International Home Economics (1–3).
HHD 5136.	Accessible Housing (3).
HHD 5251.	Environment and Human Behavior (3).
HHD 5906r.	Directed Individual Study (1–3). (S/U grade only.)

HHD 5915r.	Supervised Research (1–3). (S/U grade only.)
HHD 5942r.	Supervised Teaching (1–3). (S/U grade only.)
HHD 6936r.	Special Topics in Housing: Topics Vary (3).
HOE 6938r.	Proseminar in Home Economics (1–2). (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*.

THEATRE

SCHOOL OF THEATRE

Professors: S. Baker, Byrnes, Chappell, Dahl, Jordan, Judy, Karioth, Lazier, Muscha, Richey, Simmons, Wallace; *Associate Professors:* Cooper, Degen, Gelabert, Hogan, Holshue, Leahy, Lickson, Redmond, Simotes; *Assistant Professors:* Archbold, Coleman, Edmondson, Gonzalez, Hale, Sandahl; *Visiting Associate Professor:* Steger; *Burt Reynolds Eminent Scholar Chair in Theatre:* Medoff; *Hoffman Eminent Scholar Chair in Theater:* TBA; *Visiting Eppes Professor:* Alexander; *Visiting Artist in Residence and Professor:* Sherin; *Professor Emeritus:* 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 course work at both undergraduate and graduate levels. In order to major in theatre, a student must meet with an academic advisor in theatre. Several programs require an audition and/or interview for entrance.

The bachelor of arts 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, design/technology, 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 either acting, directing, scene design, costume design, lighting design, technical production, or theatre management. The doctor of philosophy (PhD) in theatre is a research degree that indicates the perfection of individual skills in theatre scholarship.

The School of Theatre offers honors in the major to encourage talented students to undertake independent research. For requirements and other information, see the “University Honors Program and Honor Societies” chapter of this *General Bulletin*.

For complete details of degree requirements, plus a description of the school, its facilities and opportunities, refer to the “School of Theatre” chapter of this *General Bulletin*.

State of Florida Common Course Prerequisites

Revisions to the 2003-2004 State of Florida Common Course Prerequisites were not available at the time this document went to press. Please refer to <http://www.facts.org> and click on “Academic Reference Manual.” Select the 2003-2004 catalog year under the ‘Common Prerequisites Manuals’ subheading. Students are strongly encouraged to consult with their academic advisor prior to making any decisions based on these prerequisites.

The State of Florida has identified common course prerequisites for this University degree program. These prerequisites are lower-level courses that are required for preparation for the University major prior to a student receiving a baccalaureate degree from The Florida State University. They may be taken either at a community college or in a university lower-division program. It is preferred that these common course prerequisites be completed in the freshman and sophomore years.

The following lists the common course prerequisites or approved substitutions necessary for this degree program:

1. THE X000 or any three (3) semester hour introductory course from 001–035 at the 1 or 2 level;
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. Nine (9) additional semester hours of any combination of THE, TPA, and TPP courses.

Definition of Prefixes

THE	— Theatre (general)
TPA	— Theatre Production and Administration
TPP	— Theatre Performance and Training

Undergraduate Courses

THE 2000. Introduction to Theatre (3). For nonmajors. Historical development, basic elements for appreciation and evaluation of performances.

THE 2020. Introduction to Theatre for Majors (3). A survey course 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 2083r. Theatre Problems (3). Topics change per semester depending upon instructor. May be repeated to a maximum of six (6) semester hours.

THE 2100. Introduction to Theatre History (3). Survey of theatre history and drama from Greeks to present. This course is a prerequisite for THE 4110, 4111, 4236, 4244, 4245, 4260, and 4481.

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 nonmajors, 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 3931r. Special Topics in Theatre (3). (S/U grade only.) Topics change per semester depending upon instructor. May be repeated to a maximum of six (6) semester hours.

THE 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

THE 4110. European Theatre History I (3). Prerequisite: THE 2100. An in-depth study of European theatre history from the Greeks through the Renaissance.

THE 4111. European Theatre History II (3). Prerequisite: THE 2100. An in-depth study of European theatre history after the Renaissance, with a major emphasis on the modern era (1870 to the present).

THE 4233. History of African-American Drama (3). 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. Examination of American theatre and drama in its cultural and social context.

THE 4244. Musical Theatre History I (3). Prerequisite: THE 2100; MUL 2211; DAN 4115; or instructor approval. 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 2100; MUL 2211; DAN 4115; or consent of instructor. 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 2100. Survey of history of Western clothing and relationship to stage.

THE 4285. History of Architecture and Decor (3). Examination of principal periods of architectural development and interior design from Ancient Egypt through the Art Deco movement of the 1930's.

THE 4305. Play Analysis (3). Line by line script examination, analyzing how playwrights of various periods achieved characterization, structure, and plotting. Prerequisite for TPP 4310 and THE 4481.

THE 4432. Latin American and Caribbean Theatre (3). Prerequisite: THE 2100. Examination of the cultural and artistic origins of Latin-American and Caribbean Theatre. Course includes reading and discussion of plays and articles concerning theatre of various regions.

THE 4433. Gender, Race and Performance (3). Advanced introduction to contemporary theories/practices of performance of race/gender on stage and in everyday life using feminist theories of performance. Read plays by women of color, white women, one African-American man.

THE 4438. African Theatre Performance (3). Through an exploration of precolonial performance traditions, written plays, and contemporary popular culture, this course examines the cultural and political complexities of selected countries of sub-Saharan Africa.

THE 4481. Dramaturgy (3). Prerequisites: THE 2100, 4305; and/or consent of instructor. 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 (12) semester hours.

THE 4913r. Theatre Tutorial (1-3). (S/U grade only). Selected topics in theatre. Upper division theatre majors only. May be repeated to a maximum of six (6) semester hours.

THE 4917r. Honors Work (1-6). Open only to students in the honors program. Covers specialized honors course work culminating in an honors thesis. May be repeated to a maximum of nine (9) semester hours.

THE 4923r. Theatre Encounters Workshop (3). Prerequisite: Permission of instructor. A workshop production of a major dramatic work together with extensive study of the social, literary, and cultural contexts. Includes dramaturgical research and written assignments. May be repeated to a maximum of six (6) semester hours.

THE 4935r. Selected Subjects in Theatre Studies (3). In-depth examination of various topics not covered in the regular course offerings. For seniors and juniors who have completed at least fifty percent of their major requirements. May be repeated to a maximum of nine (9) semester hours.

THE 4990r. Theatre Forum (0). (S/U grade only.) Required each semester for undergraduate majors. Attendance required at all school meetings and designated activities scheduled at other times. May be repeated up to thirty (30) times.

TPA 2000. Creative Design for Theatre (3). Introduces the fundamental elements of design including spot, line, shape, and color while relating these elements to theatrical production design.

TPA 2200C. Introduction to Stage Craft (2). Studies and practice in the construction, handling, rigging, and shifting of scenery.

TPA 2201. Introduction to Technical Theatre (3). This class is an introduction to the technical elements required to produce a theatrical production. Elements from scene and costume construction, along with lighting, sound and stage management, will be discussed.

TPA 2201L. Introduction to Technical Theater Laboratory (2). Students will gain direct experience in scene, costume or lighting production.

TPA 2211. Principles of Technical Theatre (3). Prerequisites: TPA 2201 and 2201L. Provide understanding of operation and management of scene shop as well as studying different and advanced techniques of theatrical production. New materials and adaptation of existing materials will be studied.

TPA 2214. Introduction to Lighting and Sound (3). Prerequisites: TPA 2201, 2201L. This course offers an in-depth exploration of the technology, terminology and concepts behind the realization of a lighting or sound design.

TPA 2220C. Introduction to Stage Lighting (2). A study of the fundamentals of lighting and basic instrumentation, electricity, and design concepts.

TPA 2248. Stage Makeup (2). Introduction to basic makeup for the stage. Emphasis is on modeling of the face with makeup.

TPA 2290-2292. Technical Theatre Laboratory [one (1) hour each]. Prerequisite: Consent of instructor. Practical experience in the nonacting areas of theatre production, to include 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 3208. Drafting for the Stage (3). Prerequisite: TPA 2201. Introduction to tools and techniques, including preparation of plates showing construction details and perspective.

TPA 3230. Costuming I (3). Prerequisites: TPA 2201L. This introductory costume sewing class is intended to instruct students in the craft of sewing costumes for use on the stage. The class focuses on commonly accepted sewing practices used in costume shops throughout the country.

TPA 3293, 3294. Technical Theatre Laboratory [one (1) hour each]. Prerequisite: Consent of instructor. Advanced practical experience in the nonacting areas of theatre production, to include 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 4014. Model Making (3). This course acquaints students with current model building techniques and systems. Students will 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, 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 4040. Costume Design for the Stage (3). Prerequisite: THE 4260 or consent of instructor. Exploration of the elements and principles of design as they relate to stage costuming. Work includes design projects.

TPA 4060. Principles of Scenic Design (3). Prerequisite: TPA 3208. Beginning design techniques including ground plan, perspective, and model building.

TPA 4064. Scene Design Theory and Practice (3). Prerequisites: TPA 3208, 4060. This course demonstrates a clear process for developing a design idea and executing the final presentation.

TPA 4071. Rendering for the Stage (3). Rendering techniques for the set, costume, and lighting designer in various media. Professional equipment required.

TPA 4077. Scene Painting (3). Traditional scene painting techniques for theatre and film. Professional equipment required.

TPA 4078. Advanced Scene Painting (3). This is an advanced studio course that will develop 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 4217. Welding Techniques for Scenery Construction (3). A studio course that introduces the basic equipment, materials and techniques required for the cutting and welding of metals used in scenery construction.

TPA 4223. Theatrical Lighting Technology (3). Prerequisite: TPA 2201. This course explores a variety of practical skills and tools that are necessary for a career as a master electrician, programmer or other non-design application. It encompasses work in electricity, trouble shooting, special effects, light board programming and advanced technology.

TPA 4234. Costume Crafts (3). Exploration of various costume craft techniques and materials, including clay, plaster, leather, thermoplastics, casting, and metals, and their relationship to theatrical apparel.

TPA 4238. Advanced Costume Construction (3). Prerequisite: TPA 3230. This course is an advanced study in costume construction techniques utilized in theatre costume shops.

TPA 4239. Costume Patterning (3). Prerequisite: TPA 3230. This course introduces undergraduate students studying costuming to various methods of designing and constructing patterns. Methods to be examined include drafting, flat patterning and draping.

TPA 4240. Advanced Costume Draping (3). Prerequisite: TPA 4239 or permission of instructor. This course offers advanced study in costume patterning, with an emphasis on draping techniques. It is a project-oriented course.

TPA 4241. Stage Costume Millinery Techniques (3). Exploration into various millinery techniques including the blocked, constructed buckram, straw, and restored hats with emphasis on both historical and theatrical interpretations.

TPA 4244. Fabric Modification for Stage Costumes (3). A survey of two-and-three-dimensional fabric modification techniques as they relate to theatrical costumes. Basic techniques covered include dyes, painting mediums, printing processes, sewing and off-loom techniques.

TPA 4246. Designing and Constructing Makeup, Hair, and Wigs (3). Prerequisites: THE 4260; TPA 2000, 4040. This course examines makeup, hair, and wig styles popular throughout history. Students acquire practical experience in designing and constructing makeup, hair and wigs.

TPA 4250. AutoCAD for the Stage (3). Students will learn to apply theatrical drafting standards to AutoCAD. This course will cover basic DOS commands and structure, drafting in 2D AutoCAD, and drafting in 3D AutoCAD (including basic modeling commands).

TPA 4400. Theatre Management (3). 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). Methods and techniques of managing simple dramatic shows to complex multiscene productions. Must be taken before stage managing a Mainstage production. Consent of instructor required.

TPA 4905r. Directed Individual Study (1-3). May be repeated to a maximum of twelve (12) semester hours.

TPA 4922r. BFA Design/Technology Workshop (2). Prerequisite: BFA candidates only. Evaluation and supervision of all design/technology work. May be repeated to a maximum of eight (8) semester hours.

TPA 4940r. Internship in Stage Design, Technical Theatre, and Management (1-3). (S/U grade only.) Prerequisites: Completion of all course work in theatre, approval of faculty in appropriate specialist area. Resident internship in an approved professional theatre, shop, or enrichment center. May be repeated to a maximum of six (6) semester hours.

TPP 2110r. Acting Technique I: Basic Process (3). Prerequisite: Permission of instructor. 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 (9) semester hours.

TPP 2111r. Acting Technique II: Contemporary American Realism (3). Prerequisites: TPP 2110r; and/or permission of instructor. Scene study and basic characterization. May be repeated to a maximum of nine (9) semester hours.

TPP 2120. Creative Improvisation: Form and Idea in Acting (2). Introductory course in acting; examines fundamental interrelationships between the actor's physical, vocal, and psychological potential in creating a clear and simple dramatic statement.

TPP 2185. Orientation to Acting (3). 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, 2191L, 2192L, 4193L–4195L. Theatre Rehearsal and Performance [two (2) hours each]. (S/U grade only.) Prerequisite: Permission of instructor. Assignment of a specific role and/or responsibility. Opportunity for student to receive additional supervision and critique, as well as credit, for participation in rehearsal and performance.

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: Permission of instructor. Exercises for self-awareness, physical strength, flexibility, and versatility for the actor. May be repeated to a maximum of six (6) semester hours.

TPP 3511r. Movement Techniques for Theatre II (3). Prerequisite: TPP 3510r; and/or permission of instructor. Styles of movement and dance, creative presentations, and daily warm-ups. May be repeated to a maximum of (6) semester hours.

TPP 3531. Stage Fight I (3). This course explores how actors use physical text to expand choices in their work, including hand-to-hand combat and found weapons. Paramount to the structure of the class is examination of the emotional/psychic strain this work creates for actors.

TPP 3532. Stage Fight II (3). Prerequisite: TPP 3531. A continuation of Stage Fight I, this class focuses on the use of found weapons, quarter-staffs, and rapiers/daggers in combat. Hand-to-hand work and tumbling are essential to class progression.

TPP 3710r. Voice Techniques for Theatre I (3). Prerequisite: Permission of instructor. Basic vocal skills, creation of a free and flexible voice; control of speech variables. May be repeated to a maximum of six (6) semester hours.

TPP 3711r. Voice Techniques for Theatre II (3). Prerequisite: TPP 3710r; permission of instructor. Exercises in diction and articulation, study of International Phonetic Alphabet, correction of regionalisms.

TPP 4112r. Acting Techniques III: Acting Problems in Genre and Style (3). Prerequisites: TPP 2110r, 2111r, 3711r; and/or permission of instructor. Acting workshop oriented to particular problems the actor confronts in dealing with historic periods in dramatic literature or material of postrealistic and contemporary styles and thought. May be repeated to a maximum of nine (9) semester hours.

TPP 4224. Audition Techniques (3). 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. This course will examine the audition process from the perspectives of both the aspiring performer and the prospective employer.

TPP 4310. Directing I (3). Corequisite: THE 4305. A basic techniques course with emphasis on script analysis, fundamentals of staging, and work with actors.

TPP 4311. Directing II (3). Prerequisites: TPP 4310; permission of instructor. Advanced undergraduate directing with emphasis on practical scene work.

TPP 4512r. Advanced Movement for the Theatre (3). Prerequisite: TPP 3510r, 3511r; and/or permission of instructor. Advanced movement techniques and exploration of repertory and choreography. May be repeated to a maximum of six (6) semester hours.

TPP 4600. Fundamentals of Playwriting (3). Introductory course to the craft of playwriting. Functions as a workshop and focuses on the mechanics of structure, form, and marketing.

TPP 4712r. Voice Techniques for Theatre III (3). Prerequisites: TPP 2110r, 3710r, 3711r; and/or permission of instructor. The incorporation of vocal techniques into acting problems. Exercises in acting styles. Vocal characterization. Emphasis on vocal freedom and flexibility. May be repeated to a maximum of six (6) semester hours.

TPP 4730r. Dialects for Stage (3). Prerequisites: TPP 2110r, 3710r, 3711r; and/or permission of instructor. 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 (6) semester hours.

TPP 4905r. Directed Individual Study (1–3). May be repeated to a maximum of twelve (12) semester hours.

TPP 4922r. Performance Workshop in Acting/Directing (2). Prerequisites: BFA candidates only; permission of instructor. Course provides evaluating systemization, supervision, and critiques for performance work required for BFA program. May be repeated to a maximum of ten (10) semester hours.

TPP 4923r. Musical Theatre Workshop (2). Prerequisites: BFA candidates only; permission of instructor. Course provides evaluation, systemization, supervision, and critiques of all performance work undertaken to isolate acting and musical problems which occur in musical theatre and to seek their solution in performance. May be repeated to a maximum of eight (8) semester hours.

TPP 4940r. Internship in Theatre Performance (1–3). (S/U grade only.) Prerequisites: Completion of all course work in theatre, approval of faculty in appropriate specialist area. Resident internship in an approved professional theatre, shop, or enrichment center. May be repeated to a maximum of six (6) semester hours.

Graduate Courses

THE 5084r. Theatre Problems (3).

THE 5119. Masters of Modern Drama (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 Theater History I (3).

THE 5247. Musical Theater 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: Theory and History of Directing (3).

THE 5287. History of Architecture and Décor (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 5485. Shakespearean Dramaturgy (3).

THE 5486. Graduate Dramaturgy (3).

THE 5506. Seminar: Dramatic Theory and Criticism—20th Century (3).

THE 5541. Seminar in Theatrical Theory: The Tragic Dramatic Form (3).

THE 5542. Seminar in Theatrical Theory: The Comic Dramatic Form (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 5927r. Graduate Theatre Laboratory (2). (S/U grade only.)

THE 5940r. Internship in Theatre (2–12). (S/U grade only.)

THE 5943r. Supervised Teaching (1–5). (S/U grade only.)

THE 6272. Seminar: Theory and History of Acting (3).

THE 6531. Methods of Theatre Criticism (3).

THE 6915. Doctoral Research Potentials (0). (S/U grade only.)

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 5067r. Scenic Design III (3).

TPA 5069r. Scenic Design IV (3).

TPA 5079. Scene Painting (3).

TPA 5080r. MFA Practicum in Design for the Stage (2–15).

TPA 5086. Life Drawing for Designers (3).

TPA 5089. Advanced Technical Theatre: Problems in Scene Painting (3).

TPA 5203. Drafting (3).

TPA 5207. Technical Directions (3).

TPA 5213. Stage Rigging (3).

TPA 5227. Theatrical Lighting Technology (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. Costume Fitting and Advanced Draping (3).

TPA 5245. Fabric Modification for Stage Costumes (3).

TPA 5247. Advanced Designing and Constructing Makeup, Hair and Wigs (3).

TPA 5280r. MFA Practicum in Technical Theatre (2–15).

TPA 5285. Technical Production and Management (3).

TPA 5286r. Selected Topics in Technical Theatre (3).

TPA 5405. Principles of Theatre Management (3).

TPA 5407. Fundraising in the Arts (3).

TPA 5408. Business and Legal Issues in the Arts (3).

TPA 5409. Audience Development and Arts Marketing (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).
TPP	5145r.	Acting Techniques I (3).
TPP	5146r.	Classical Performance Styles (3).
TPP	5284r.	MFA Practicum in Acting (1–15).
TPP	5380r.	MFA Practicum in Directing (2–15).

TPP	5381–5383.	Problems in Directing [three (3) hours each].
TPP	5515r.	Movement I (3).
TPP	5516r.	Movement II (3).
TPP	5651.	Advanced Play Analysis (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 course work 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

Department of URBAN AND REGIONAL PLANNING

COLLEGE OF SOCIAL SCIENCES

Chair: Charles Connerly; *Professors:* Connerly, Cowart, Stiftel; *Associate Professors:* Audirac, Deyle, Doan, Miles, Thompson; *Assistant Professors:* Chapin, Smutny; *Planner-in-Residence:* Higgins; *Professor Emeriti:* Frank, RuBino

Urban and regional planning is an interdisciplinary field that is concerned with the management of population growth and decline in urban, suburban, and rural areas. It is concerned with the uses of land to accommodate population; the provision of employment, services, and facilities needed by this population (for example, housing, hospitals, roads and other transportation facilities, schools, parks and recreation, and health services); and the impacts of this population on the environment (air, water, and land), society, and governance.

Planners study these issues and develop policies and plans to accommodate population growth and the problems that arise from this growth. Planners are concerned with the development of coordinated policy responses to these issues; they practice a broad view that focuses on the interrelationships between problems and the necessary interrelatedness of solutions. Above all, planners are concerned with improvements to the quality of life of our communities. They attempt to address these issues in ways that recognize the diverse interests of both genders and those of varying social and economic groups.

Planning is practiced at all levels of government, including local, regional, state, multistate, and national levels. Planners are also found in the private sector; in the employment of development firms, law firms, banks, and specialized resource firms (mining, forestry, etc.); in public interest organizations; and in international settings.

The Department of Urban and Regional Planning offers three nonmajor 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, certificate and pregraduate programs. Within each of these three 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 universally 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 at the 3000 and 4000 levels 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 two required courses and two elective courses. URP 3000 is a prerequisite for all of the required and elective courses. Electives are chosen from among a set of introductory courses representing the major policy areas taught by the department. These include growth management and comprehensive planning, planning for developing areas, environmental planning and resource management, housing and community development, and transportation planning.

Students interested in the planning studies minor program are advised to see the department's Director of Undergraduate Programs for advice on the availability of courses.

Required Courses

URP	3000	Introduction to Planning and Urban Development
URP	4022	Collective Decision Making

Elective Courses (Choose Two)

URP	4314	Introduction to Growth Management and Comprehensive Planning
URP	4402	Sustainable Development
URP	4423	Introduction to Environmental Planning and Resource Management
URP	4618	Introduction to 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

The Certificate Program in Urban and Regional Planning

The certificate program is intended for undergraduate students who want to delve more deeply into the field of planning. The program requires two courses in addition to the four required for the minor and is issued only in conjunction with the applicant's receipt of a bachelor of arts or science degree and a grade of "C–" or better in all courses. One of these two courses is ECO 2023, Economics of the Price System (3). The second course should be chosen from a list available from the undergraduate program advisor.

Pre-graduate Minor Program

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 course work 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 admis-

sion with advanced standing at the graduate level. Students make application for advanced standing after admission to the master's program.

The pregraduate program allows acceleration toward the master of science in planning degree upon satisfactory completion of one required undergraduate course and one to four of the eligible URP graduate courses listed below. URP 3000 is a prerequisite/corequisite for all these courses.

Admission to the pregraduate program is available only to those undergraduates who are beginning or in their senior year and who have maintained a cumulative grade point average (GPA) of at least 3.2 or who have earned a score of at least 1000 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 (12) semester hours of course work in which the grade of "B" or higher was earned.

Required Courses

URP 3000 Introduction to Planning and Urban Development

Elective Courses (Choose One to Four)

URP 5101 Planning Theory and Practice
 URP 5125 Plan Implementation
 URP 5201 Methods of Planning Analysis I: Research and Evaluation
 URP 5211 Methods of Planning Analysis II: Statistics
 URP 5312 Issues of Comprehensive Planning and Growth Management
 URP 5421 Introduction to Environmental Planning
 URP 5424 Sustainable Development Planning in the Americas
 URP 5610 Introduction to Planning for Developing Regions
 URP 5711 The Transportation Planning Process
 URP 5742 Problems and Issues in Housing and Community Development
 URP 5847 The Growth and Development of Cities

Note: a guide to undergraduate studies in urban and regional planning is available from the department and should be consulted by all students enrolling in the minor planning studies or pregraduate programs.

A minor can be earned concurrent with work on the pregraduate program. The minor is composed of a four-course sequence: URP 3000, 4022, and at least two additional graduate courses included in the list above.

Multicultural Studies

A variety of Urban and Regional Planning undergraduate courses explore perspectives of different cultural groups on questions related to urban

life and the development of human settlements. Approved for credit under the University's baccalaureate Multicultural requirement for Cross-cultural (X) courses are: URS 1006, World Cities; and URP 4618, Planning for Developing Regions. Approved under the requirement for Diversity in Western Cultures (Y) is: URP 4402, Sustainable Development Planning in the Americas.

Definition of Prefixes

URP — Urban and Regional Planning
 URS — Urban and Regional Studies

Undergraduate Courses

Liberal Studies Area III

URS 1006. World Cities: Quality of Life (3). 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). Introduces planning concepts and the role of planning in formulating policy, meeting critical problems, and shaping the future urban environment.

URP 3949r. Cooperative Education Work Experience (0). (S/U grade only.)

URP 4022. Collective Decision Making (3). Prerequisites: URP 3000 or permission of instructor. Outlines efficiency, equity, and environmental quality as competing bases for public decisions. 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 permission of instructor. An introduction to the problems and needs for growth management and comprehensive planning for US cities, highlighting various planning approaches and strategies available for meeting development, growth, and land-use problems.

URP 4401. Coastal Ecosystems, Environmental Issues and Coastal Zone Management (3). Prerequisite: URP 3000 or permission of instructor. This course will provide an introduction to coastal environments in terms of their basic ecological functioning, human impacts and management issues. Florida coastal ecosystems will be emphasized, including salt marsh and mangroves, estuaries, barrier islands, sea grass meadows, coral reefs and continental shelves.

URP 4402. Sustainable Development Planning in the Americas (3). Prerequisite: URP 3000 or permission of instructor. 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. Organized in 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 4423. Introduction to Environmental Planning and Resource Management (3). Prerequisite: URP 3000 or permission of the instructor. 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 4523. Introduction to Health Planning (3). Prerequisite: URP 3000 or permission of the instructor. Examines the structures, policies, resources, and services of the health care system, including both the public and private sectors and systems for acute, chronic, and long-term care. Focuses on planning and policy needs and implications.

URP 4531. Policy and Planning for the Aged (3). This course examines issues faced by older people and the current federal and state policies designed to address these issues. It explores these policies and issues, in the context of both political economy and the long-term care continuum from independence to dependence.

URP 4618. Planning for Developing Regions (3). Prerequisite: URP 3000 or permission of instructor. This course will introduce 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 permission of instructor. An introduction to contemporary US 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 permission of instructor. 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. Relationships between public and private sectors are examined.

URP 4936r. Special Topics in Urban and Regional Planning (3). A selected topics seminar for the discussion of unique and timely planning related issues. Content varies. May be repeated to a maximum of six (6) semester hours.

Graduate Courses

Planning Theory and Practice

URP 5101. Planning Theory and Practice (3).
 URP 5122. Planning Dispute Resolution (3).
 URP 5125. Plan Implementation (3).
 URP 5131. Legal Foundations for Planning (3).
 URP 5342. Advanced Planning Problems (3).
 URP 5504. Planning for Social Change and Citizen Participation (3).
 URP 5544. Gender and Development (3).
 URP 5944. Dispute Resolution Practicum (3).
 URP 6102. Seminar in Planning Theory (3).

Planning Methods

URP 5201. Methods of Planning Analysis I: Research and Evaluation (3).
 URP 5211. Methods of Planning Analysis: Statistics (3)
 URP 5222. Policy Analysis for Planning Decisions (3).
 URP 5257. Fiscal Impact Analysis (3).
 URP 5261. Methods of Planning Analysis III: Plan Development (3).
 URP 5272. Urban and Regional Information Systems (3).
 URP 5279. Urban and Regional Information Systems Practicum (3).
 URP 6202. Design of Policy-Oriented Research (3).

Urban Growth Process

URP 5847. Growth and Development of Cities (3).
 URP 6844. Seminar in Regional Theory (3).
 URP 6846. Seminar in Urban Theory (3).

Planning for Developing Regions

- URP 5610. Introduction to Planning for Developing Regions (3).
- URP 5611. Strategies for Urban and Regional Development in Less-Developed Countries (3).
- URP 5614. Population and Development Planning (3).
- URP 5616. Project Planning in Developing Countries (3).
- URP 5619r. Special Topics in Development Planning (3).

Environmental Planning and Natural Resource Management

- 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 5428. Pollution Control (3).
- URP 5429r. Special Topics in Environmental Planning and Resource Management (3).

Growth Management and Comprehensive Planning

- URP 5312. Perspective and Issues of Comprehensive Planning and Growth Management (3).

- URP 5316. Land-Use Planning (3).
- URP 5319r. Special Topics in Comprehensive Planning and Growth Management (3).
- URP 5350. Pedestrian-oriented Communities (3).
- URP 5731. The Planning of Community Infrastructure (3).
- URP 5873. Site Design and Land-Use Analysis (3).

Transportation Planning

- URP 5711. The Transportation Planning Process (3).
- URP 5716. Transportation and Land Use (3).
- URP 5717. Methods of Transportation Planning (3).
- URP 5719. Special Topics in Transportation Planning (3).

Housing and Community Development

- URP 5540. State and Local Economic Development Planning (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 5745. Housing and Community Development Methods (3).
- URP 5749r. Special Topics in Housing and Community Development (3).

Health Planning

- URP 5520. The U.S. Health Care System (3).
- URP 5522. Regulatory Aspects of Health Care (3).
- URP 5530. Policy and Planning for the Aging (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 course work for thesis, dissertation, and master's and doctoral examinations and defense, consult the *Graduate Bulletin*.

VISUAL DISABILITIES: see Special Education

Program in WOMEN'S STUDIES

COLLEGE OF ARTS AND SCIENCES

Director: Joyce Carbonell (Psychology/Women's Studies); *Participating Faculty:* Hartwell (Art); Finnegan (Art Education); Bearor (Art History); N. DeGrummond, Fulkerson, Sickinger, Tatum (Classical Languages, Literature, and Civilization); Jordan, Nudd (Communication); Bush-Baskette (Criminology and Criminal Justice); Young (Dance); MacDonald, Monkman (Educational Foundations); Schwartz (Educational Leadership); Cooper, Gardner, Laughlin, McGregor, Montgomery, Ortiz-Taylor, Picart, Rosenthal, Rowe, Saladin (English); Green, Hadden (History); Boutin, Cappuccio, Cloonan, Graham-Jones, Poey, Stanley, Walters (Modern Languages and Linguistics); Davis (Nursing); Marcus (Oceanography); Morales (Philosophy); Lynn, Pitts (Physical Education); Kemp (Political Science); Carbonell (Psychology); Erndl, Kalbian (Religion); Maxwell, Mathiesen (Social Work); Brewster, Martin, Padavic, Reid (Sociology); Davis (Textiles and Consumer Sciences); Gonzalez, Sandahl (Theatre); Miles (Urban and Regional Planning)

Women's studies courses are taught by faculty in more than 20 departments throughout the University.

Women's studies is an interdisciplinary and interdepartmental program that examines the status, accomplishments, and perspectives of women in history, culture, and contemporary society. Women's studies further seeks to delineate the richness and diversity of women's experiences and viewpoints by exploring the dynamics of gender, race, culture, and class.

By placing women at the center of inquiry, women's studies courses offer new perspectives on human history and the human condition. Using gender as a category of analysis, these classes examine the systematic arrangements in society that have shaped the lives of women and men and reevaluate traditional gender-based stereotypes. The courses foster critical analysis of assumed truths about society by examining paradigms based upon the feminist scholarship of the last three decades. By encouraging inquiry into the full range of the human experience, women's studies enriches the University curriculum and prepares students for life in a rapidly changing, complex world.

Students pursuing research in women's studies at The Florida State University will find a rich array of materials on women and gender in the government document holdings, special collections, and numerous microform manuscript collections of the Strozier Library and in the extensive collections of the College of Law Library, Mildred and Claude Pepper Library and the Jean Gould Bryant Library of Women's Studies. The nearby State Archives is an additional source of research material.

Women's studies graduates have described women's studies as a versatile major that prepared them for life, not just a career. In particular, graduates have cited its interdisciplinary focus, its attention to developing critical thinking skills, and its ability to empower students with a new sense of their potential and the courage to design their own careers and life plan. Women's Studies graduates can be found in nearly all occupations.

The Women's Studies Program offers an undergraduate major within the interdisciplinary bachelor's degree Program in Humanities and an interdisciplinary minor at the undergraduate, MA, and PhD levels.

For more information and updates see the Women's Studies Program website at <http://www.fsu.edu/~womenst>.

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.

Requirements for a Major in Women's Studies

Students are required to take thirty-three (33) 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 (3) 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 (6) semester hours may be counted toward both majors; and 2) No minors are required for the double major.

Distribution

WST Requirement

Nine (9) semester hours in WST interdisciplinary courses: a) WST 3251, Women in Western Culture: Images and Realities (3); b) WST 4931, Seminar in Women's Studies; c) either WST 4930r, Topics in Women's Studies (3), or WST 4940r, Women's Studies Internship (3-6) 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.

Cross-listed Core Courses

At least twelve (12) semester hours of cross-listed courses listed below. Specifically required are three (3) 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	4565	Colonial and Revolutionary Era American Women's History (3)
CLA	3501	Gender and Society in Ancient Greece (3)
CLA	3502	Women, Children and Slaves in Ancient Rome: The Roman Family (3)
REL	3145	Gender and Religion (3)
REL	3146	Gender and the Bible (3)
REL	3337	Goddesses, Women and Power in Hinduism (3)
REL	4671	Gender and Judaism (3)

Group B

ANT	4302	Sex Roles in Cross-Cultural Perspective (3)
PHM	3123	Philosophy of Feminism (3)
PUP	3323	Women and Politics (3)
SOP	3742	Psychology of Women (3)
SPC	4630	Rhetoric of Women's Issues (3)
SYD	3800	Sociology of Sex and Gender (3)
SYO	4374	Gender and Work (3)

Group C

ARH	4870	20th Century U.S. Women's Art (3)
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	Female Crime and Delinquency (3)
HOE	3330	Human Sciences and Human Development: Global Perspectives (3)
NUR	3495	Women's Health Issues: Concerns Through the Life Cycle (3)
PET	4253	Lesbian and Gay Sport Studies (3)
PET	4254	Gender Issues in Sport and Physical Activity (3).
SOW	4108	Women's Issues and Social Work (3)
SOW	4627	Mental Health of Diverse Populations (3)

Electives

Twelve (12) 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. Majors should consult the women's studies offerings in The Florida State University

Course Lookup System, at <http://apps.oti.fsu.edu/servlet/RegistrarCourseLookupSearchForm>, and check with the women's studies office 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 and minoring 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 (6) semester hours of honors thesis hours (WST 4970r, Honors Thesis—Women's Studies) toward the bachelor of arts degree, but only three (3) semester hours of WST 4970r will be accepted for major credit. For requirements and other information, see the "University Honors Program and Honor Societies" chapter of this *General Bulletin*.

Requirements for a Minor in Women's Studies

At least fifteen (15) semester hours of approved courses, distributed as follows:

- At least three (3) semester hours of interdisciplinary women's studies courses selected from WST 3251, Women in Western Culture: Images and Realities, WST 4930r, Topics in Women's Studies, WST 4931, Seminar in Women's Studies;
- At least nine (9) semester hours of cross-listed core courses;
- The remaining three (3) semester hours may be selected from approved WST courses, cross-listed core courses, approved special topics courses or related courses.

Minors should consult the women's studies offerings in The Florida State University Course Lookup System, at <http://apps.oti.fsu.edu/servlet/RegistrarCourseLookupSearchForm>, and check 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.

Undergraduate Courses

Interdisciplinary Women's Studies Courses

WST	3251	Women in Western Culture: Images and Realities (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	4565	Colonial and Revolutionary Era American Women's History (3)
ANT	4302	Sex Roles in Cross-Cultural Perspective (3)
ARH	4870	20th-Century U.S. Women's Art (3)
CCJ	4663	Female Crime and Delinquency (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)
HOE	3330	Human Sciences and Human Development: Global Perspectives (3)
LIT	3383	Women in Literature (3)
LIT	4385	Major Women Writers (3)
NUR	3495	Women's Health Issues: Concerns Through the Life Cycle (3)
PET	4253	Lesbian and Gay Sport Studies (3)
PET	4254	Gender Issues in Sport and Physical Activity (3).
PHM	3123	Philosophy of Feminism (3)
PUP	3323	Women and Politics (3)
REL	3145	Gender and Religion (3)
REL	3146	Gender and the Bible (3)
REL	3337	Goddesses, Women and Power in Hinduism (3)
REL	4671	Gender and Judaism (3)
SOP	3742	Psychology of Women (3)
SOW	4108	Women's Issues and Social Work (3)
SOW	4627	Mental Health of Diverse Populations (3)

SPC	4630	Rhetoric of Women's Issues (3)
SPW	4481	Contemporary Spanish Women Writers (3) (In Spanish)
SPW	4491	Spanish American Women Writers (3)
SYD	3800	Sociology of Sex and Gender (3)
SYO	4374	Gender and Work (3)
THE	4433	Gender, Race and Performance (3)

Note: see the appropriate individual departments for full course descriptions.

Graduate Courses

AMH	5564	Women in Modern America (4)
AMH	5567	Women in 19th-Century America (4)
AMH	5568	Colonial and Revolutionary Era American Women's History (4)
ARH	5875	20th-Century Feminist Art Criticism (3)
EDA	5227	The Role of the Woman Administrator in Education (3)
EDF	5706	Gender and Education in Comparative Perspective (3)
HEE	5347r	International Home Economics (1–3)
LIT	5388r	Studies in Women's Writing (3)
PET	5252	Gender Issues in Sport and Physical Activity (3)
PET	5257	Lesbian and Gay Sport Studies (3)
REL	5675	Gender and Judaism (3)
SOW	5109	Women's Issues and Social Work (3)
SOW	5614	Family Violence Across the Life Span (3)
SOW	5628	Mental Health of Diverse Populations (3)
SPC	5639	Rhetoric of Women's Issues (3)
SPW	5486	Contemporary Spanish Women Writers (3) (In Spanish)
SPW	5496	Spanish-American Women Writers (3) (In Spanish)
SYD	5817	Contemporary Theories of Gender (3)
SYO	5185	Family and Work Linkage (3)
SYO	5376	Sociology of Gender and Work (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)
WST	5936r	Interdisciplinary Topics in Feminist Theory (3)

Note: see the appropriate individual departments for full course descriptions.

Definition of Prefix

WST — Women's Studies

Undergraduate Courses

WST 3251. Women in Western Culture: Images and Realities (3). An interdisciplinary examination of women's roles in the development of Western culture, focusing on women's contributions to music, 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 4904r. Directed Individual Study (1–3). Prerequisite: Approval of women's studies director. For advanced undergraduates who desire to supplement the regular course offerings by independent reading or research under guidance. May be repeated to a maximum of three (3) 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 will be offered. May be repeated to a maximum of six (6) semester hours.

WST 4931. Seminar in Women's Studies (3). Prerequisite: At least two women's studies core courses; Corequisite: Approval of 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 woman's experience.

WST 4940r. Women's Studies Internship (3–6). (S/U grade only.) Prerequisite: Two core courses in women's studies; Corequisite: Approval of 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 (6) semester hours.

WST 4970r. Honors Thesis—Women's Studies (1–6). Prerequisite: WST 3251. 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 (9) semester hours.

Graduate Courses

WST	5905r.	Directed Independent Study (1–3). (S/U grade only.)
WST	5934r.	Topics in Women's Studies (3).
WST	5936r.	Interdisciplinary Topics in Feminist Theory (3).

WRITING:
see **English**

ZOOLOGY:
see **Biological Science**

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Those whose names are preceded by a dot or a plus are members of the graduate faculty. Membership on the graduate faculty falls into one of three categories on the basis of functional responsibility:

- May teach graduate-level courses and may serve as major professor for master's degree students;
- + May serve as major professor for doctoral students as well;
- * Hold doctoral directive status awarded by the University of Florida for cooperative program.

Changes in faculty, professional, and administrative staff made after September 30, 2002, may not be reflected in the following list.

- Abbot, Fredrick M.**, LL.M., California at Berkley; Professor of Law and Edward Ball Eminent Scholar in International Law
- Abbuhl, Douglas R.**, Coordinator, Physical Plant, Seminole Golf Course
- + **Abdel Razig, Yassir**, Ph.D., Purdue; Assistant Professor of Civil and Environmental Engineering
- **Abdullah, Makola**, Ph.D., Northwestern; Assistant Professor of Civil and Environmental Engineering
- Abel, Carol L.**, M.A., Visiting Associate in Research, Academic Affairs
- + **Abele, Lawrence G.**, Ph.D., Miami; University Provost, and Professor of Biological Science
- + **Abell, Joseph N.**, Ph.D., Florida State; Associate Professor of Social Work
- Abell, Terry D.**, M.S., Coordinator, Clinical Programs, Social Work
- **Abichou, Tarek**, Ph.D., Wisconsin; Assistant Professor, Civil Engineering
- + **Abood, Doris A.**, Ph.D., Tennessee; Associate Professor of Nutrition, Food, and Exercise Sciences
- Adamick, Steven H.**, M.A., Coordinator, Facilities Planning, Facilities Planning and Construction
- **Adamovich, Ljubisa S.**, Ph.D., Belgrade; Scholar/Scientist/Engineer, Dean's Office, College of Social Sciences
- Adams, Allan H.**, D.C., Visiting Faculty Administrator and Academic Administrator, Academic Affairs, Office of the Provost
- Adams, Jonathan L.**, Ed.D., Boston University; Associate Professor of Communication
- Adams, Rebecca J.**, M.L.S., Associate Librarian, University Libraries
- Adams, Sandra**, Ph.D., Florida; Assistant in Research, Institute for Science and Public Affairs
- **Adams, Todd**, Ph.D., Notre Dame; Assistant Professor of Physics
- Adams, Travis D.**, M.S., Coordinator, Environmental Health and Safety, National High Magnetic Field Laboratory
- Adiey, Kouacou**, Ph.D., Pierre and Marie Curie University; Visiting Assistant in Research, Chemistry
- **Adolph, Winnifred R.**, Ph.D., North Carolina; Associate Chair and Associate Professor of Modern Languages and Linguistics
- Adolph, Wolfgang E.**, M.A., Associate in Modern Languages and Linguistics
- + **Aggarwal, Sudhir**, Ph.D., Michigan; Professor and Chair of Computer Science
- Agner, William S., Jr.**, B.S., Assistant Controller, Controller, Enterprise Resource Planning Project
- Aguero, Dawn B.**, M.L.S., Instructor Librarian, Institute for Science and Public Affairs
- Agwunobi, Jennifer B.**, M.A., Coordinator, University Relations/Publications Affairs, University Relations
- + **Ahlquist, Jon E.**, Ph.D., Wisconsin; Associate Professor of Meteorology
- **Akbar, Na'im**, Ph.D., Michigan; Associate in Clinical Psychology, Psychology
- + **Alamo, Rufina G.**, Ph.D., Madrid; Associate Scholar/Scientist, Institute of Molecular Biophysics
- + **Alabugin, Igor V.**, Ph.D., Moscow State; Assistant Professor of Chemistry
- Albee, Amy M.**, M.S., Coordinator, Student Affairs, Dean of Students
- Aldridge, Amy S.**, A.S., Coordinator, Business and Financial/Auxiliary Services, ABA
- Aldridge-Russell, Terri S.**, B.S., Coordinator, Continuing Education, Center for Professional Development
- + **Aldrovandi, Ettore**, Ph.D., International School for Advanced Studies; Assistant Professor of Mathematics
- Alexander, Cassandra V.**, B.S., Coordinator, Academic Support Systems, Undergraduate Studies
- Alexander, Charlie F.**, Coordinator, Accounting, Enterprise Resource Planning Project
- Alexander, Dianne G.**, Ph.D., Florida State, Director, Medical/Health Administration, Communication Disorders
- Alexander, Jane**, D.F.A., The Juilliard School; Visiting Francis Eppe Professor of Theatre
- Alexander, Karen E.**, M.S., Coordinator, Research Programs/Services, Medicine
- Alexander, Mary M.**, Ph.D., Florida State; Assistant in Student Teaching, College of Education
- Alexander, Mildred G.**, M.S., University School Assistant Resource, Developmental Research School
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- Alfano, Andrea N.**, M.S., Coordinator, Career Development Services, Career Center
- Alfano, Cathleen S.**, M.S., Research Associate, Learning Systems Institute
- Ali, Amal K.**, M.S., Coordinator, Academic Programs, Distributed and Distance Learning
- **Allaire, Joseph L.**, Ph.D., Wayne State; Associate Professor of Modern Languages and Linguistics
- Allbaugh, Candice H.**, M.S., Coordinator, Academic Support Services, Medicine
- Allen, Barbara L.**, B.S., Executive Assistant, Vice President for Academic Affairs
- Allen, Charles M., Jr.**, M.S., Coordinator, Advance/Alumni Affairs, WFSU-TV
- Allen, Charles W.**, Assistant in Film, School of Motion Picture, Television and Recording Arts
- Allen, James J.**, A.A., Coordinator, Construction Projects, Environmental Health and Safety
- Allen, Leslie H.**, M.S., Assistant in Field Instruction, School of Social Work and Center for Professional Development
- Allen, Lori M.**, M.S., Coordinator, Clinical Programs, Communication Disorders
- Allen, Margaret R.**, M.S., Coordinator, Academic Support Systems, Undergraduate Studies
- + **Allen, Michael L.**, Ph.D., North Texas; Associate Professor of Music
- + **Allen, Susan D.**, Ph.D., Southern California; Professor of Chemistry and Electrical and Computer Engineering
- Allen, Terice D.**, B.S., Visiting University School Instructor, Developmental Research School
- Allen, Willie C.**, Ph.D., Florida State; Visiting Instructor, College of Education
- + **Allison, Barbara N.**, M.Ed., Assistant Professor of Family and Child Sciences
- Allher, Irmin B.**, Ph.D., Syracuse; Associate Librarian and Department Head, University Libraries
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- **Altholz, Judith A.**, Ph.D., Florida State; Assistant Professor of Social Work
- Altman, Burton H.**, M.L.S., Librarian, Strozier Library, Pepper Collection
- Altmann, Curtis R.**, Ph.D., California at Berkeley; Assistant Professor of Biomedical Sciences
- Altun, Julie E.**, B.S., Coordinator, Academic Support Systems, Undergraduate Studies
- + **Aluffi, Paolo**, Ph.D., Brown; Professor of Mathematics
- Alvarado, Angela L.**, M.A., Coordinator, Academic Support Services, Center for Academic Retention and Enhancement
- Alvarez, Rafael G.**, M.S., Associate Vice President for Administrative Affairs, Budget and Analysis
- + **Alvi, Farrukh S.**, Ph.D., Pennsylvania State; Associate Professor of Mechanical Engineering
- Ambrose, Darren U.**, B.S., Assistant Athletic Coach, Women's Soccer
- Amos, Kimberly L.**, M.S., Coordinator, Academic Support Services, Distance Learning
- Amser, Eva**, B.M., Visiting Assistant Professor of Music
- Andersch, Samantha L.**, M.A., Assistant Athletic Coach, Athletics
- Anderson, James R.**, M.S., Faculty Administrator and Director, Florida Resources and Environmental Analysis Center
- **Anderson, Leon, Jr.**, M.M., Assistant Professor of Music.
- + **Anderson, Loran C.**, Ph.D., Claremont Graduate School; Professor of Biological Science and Curator, Herbarium
- Anderson, Paula J.**, B.A., Coordinator, Information/Publication Services, Admissions
- Anderson, Ralph L.**, B.A., Visiting University School Instructor, Developmental Research School
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- Armstrong, Malcolm H.**, Ph.D., Florida State; Visiting Assistant Professor of Communication
- Armstrong, Margaret**, M.A., Assistant in Research, Educational Services Program
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- + **Arora, Rajendra K.**, Ph.D., St. Andrews; Professor of Electrical and Computer Engineering

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- + **Atkins, Burton M.**, Ph.D., Kentucky; Professor of Political Science
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- Ward, James T.**, Coordinator, Computer Systems Control, Northwest Regional Data Center
- Ward, John M.**, B.S., Coordinator, Construction Projects, Campus Design, Facilities Planning and Construction
- Ward, Maryanne B.**, Ph.D., Florida State; Visiting Instructor of Special Education
- + **Warf, Barney L.**, Ph.D., Washington; Chair and Professor of Geography
- Warfel, Heather G.**, M.S., Visiting University School Instructor, Developmental Research School
- Warmath, David S.**, M.S., Associate in Neuroscience, Psychology
- Warner, Thomas E.**, J.D., Florida, Richard W. Ervin Eminent Scholar in Law
- Warren, Amy W.**, M.S.W., Coordinator, Human Services, Center for Prevention and Early Intervention
- Warren, Meryl R.**, Coordinator, Administrative Services, Motion Picture, Television and Recording Arts
- **Wasko, Molly M.**, Ph.D., Maryland; Assistant Professor of Information and Management Sciences
- Wasserman, Howard M.**, J.D., Northwestern; Visiting Assistant Professor of Law
- Waters, Judy L.**, B.S., Coordinator, Academic Support Services, Criminology and Criminal Justice
- Watkins, George L.**, M.S., Associate Director, Physical Plant, Facilities Operations, and Maintenance
- Watkins, Susan L.**, B.S., Coordinator, Business Financial/Auxiliary Services, Academic Business Administration-Controller
- Watkins, Timothy D.**, Ph.D., Florida State; Visiting Assistant Professor of Music
- Watson, Angel A.**, B.S., Coordinator, Research Programs/Services, Center for Prevention and Early Intervention
- Watson, Matthew S.**, B.S. Visiting Assistant in Research, Educational Services Program
- Watson, Rosemary M.**, A.A., Coordinator, Human Resources/Personnel Relations, Human Resources
- Watters, Kathleen L.**, M.S., Research Associate, Communication
- Watt, Jimmy D.**, B.S., Assistant in Research, Criminology
- Waxman, Bernard W.**, M.A., Assistant Director, Intercollegiate Athletics, Athletics
- **Waxman, Lisa J. Kinch**, M.S., Associate Professor of Interior Design
- + **Weatherly, Georges L.**, Ph.D., Nova; Professor of Oceanography
- Weathersbee, Susan W.**, B.S., Assistant Director, Business and Financial/Auxiliary Services, College of Human Sciences, Academic Business Administrators
- Weatherspoon, Mark H.**, Ph.D., South Florida; Assistant Professor of Electrical and Computer Engineering
- + **Weaver, George E.**, Ph.D., Iowa; Associate Dean and Professor of Psychology
- Weaver, Mark L.**, Ph.D., Florida; Research Associate, Mechanical Engineering
- Weber, Johanna M.**, Coordinator, Museum Operations, Ringling Museum of Art
- Weeks, Lucretia R.**, M.S., University School Instructor, Developmental Research School
- Wei, Xing**, Ph.D., Utah; Assistant in Research, National High Magnetic Field Laboratory
- Weidner, Donald J.**, J.D., Texas; Dean and Professor of Law
- + **Weijers, Hubertus W.**, M.S., Visiting Assistant in Research, National High Magnetic Field Laboratory
- + **Weingarden, Lauren S.**, Ph.D., Chicago; Associate Professor of Art History
- Weingarten, Ilese A.**, M.S.W., Special Student Counseling, Student Counseling Center
- Weinhold, Penny J.**, B.S., Coordinator, Student Affairs, Panama City Campus
- Weiseman, Pam M.**, M.S., Coordinator, Clinical Programs, Communication Disorder
- Weiss, Wendy L.**, B.A., Coordinator, Admissions/Registration
- + **Wekezer, Jerzy W.**, Ph.D., Technical University of Gdansk; Chair and Professor of Civil and Environmental Engineering
- Welch, Elizabeth S.**, M.A., Visiting Instructor, English
- Welch, Janine E.**, B.A., Coordinator, Accounting, Controller's Office
- Welch, Lauretta**, M.S., Assistant in Apparel Design, Textiles and Consumer Sciences
- Wells, Eric R.**, B.S., Coordinator, Student Financial Aid, Financial Aid
- Wells, Frederick A.**, M.S., Assistant in Information and Management Sciences
- Wells, Teion L.**, M.S., Psychologist, Psychology
- **Welsh, Thomas M.**, Ph.D., Kansas; Associate Professor of Dance
- Welsh-Ovcharov, Bogomila**, Ph.D., Utrecht; Visiting Eminent Scholar, School of Visual Arts and Dance
- Wensing, Karen M.**, M.L.S., Service Librarian, University Libraries
- Werner, Robert M.**, D.V.M., Academic Administrator, Laboratory Animal Resources
- Wertz, Caroline A.**, M.L.S., Visiting Associate Librarian, Strozier Library
- + **Wesson, G. Dale**, Ph.D., Michigan State; Visiting Assistant Professor of Chemical Engineering
- **West, Joseph**, Ph.D., Virginia Polytechnic Institute; Chair and Associate Professor of Hospitality
- West, Marlene A.**, M.S., Visiting University School Instructor, Developmental Research School
- Wester, Anderson R.**, B.S., Assistant Director, University Computer Systems, Office of Technology Integration Administrative Information Systems
- + **Weston, Kenneth D.**, Ph.D., California at Santa Barbara; Assistant Professor of Chemistry and Biochemistry
- Wetenhall, John**, M.B.A., Faculty Administrator and Academic Administrator, Ringling Museum of Art
- + **Wetherby, Amy**, Ph.D., California at Santa Barbara; Laurel L. Schendel Professor of Communication Disorders, 2000
- Wetherell, Thomas K.**, Ph.D., Florida State; University President and Professor of Educational Leadership and Policy Studies
- Wettstein, Eve E.**, E.D.S., Psychologist, School of Social Work
- + **Whalley, David**, Ph.D., Virginia; Professor of Computer Science
- Wheeldon, Howard E.**, M.A., Coordinator, Advancement/Alumni Affairs, Ringling Museum of Art
- Wheeler, Wesley K.**, B.S., Coordinator, Computer Applications, Athletics
- Wheelock, Jennifer R.**, Ph.D., Florida State; Visiting Instructor of English
- Whissel, Bert D.**, B.S., Computer Research, Meteorology
- Whitaker, Barbara J.**, Coordinator, Administrative Services, Panama City Campus
- Whitaker, Maria H.**, M.B.A., Assistant Director, Business and Financial/Auxiliary Services, Academic Business Administrators
- White, Amy J.**, M.S., Coordinator, Academic Support Services, Athletics
- White, Amy L.**, B.S., Visiting University School Instructor, Developmental Research School
- White, Barbara A.**, M.A., Associate in Research, Institute of Science and Public Affairs
- White, James S.**, Ph.D., Coordinator, Academic Programs, Engineering
- White, Kevin J.**, M.A., Coordinator, Academic Support Services, Athletics
- White, Michelle A.**, M.L.S., Visiting Instructor Librarian, University Libraries
- White, Randall T.**, Ph.D., Coordinator, Computer Applications, Mathematics
- **Whiteside, Patricia A.**, Ph.D., Florida State; Assistant Dean and Assistant Professor of Nursing
- Wickham, Bob**, B.S., Assitant Director, University Computer Systems, Enterprise Resource Planning Project
- Wideman, Willie J.**, M.S., Associate Director, Student Financial Aid, Student Financial Aid
- **Wiedenhofer, Ingo L.**, Ph.D., Cologne; Visiting Assistant Professor of Physics
- Wiedinger, Arthur R.**, J.D., Associate General Counsel, General Counsel
- Wiegand, Wayne A.**, Ph.D., Southern Illinois; Professor of Information Studies
- Wilcox, Erica S.**, B.S., Coordinator, Administrative Services, Florida Information Research Network
- Wilcox, Jeffery A.**, Ph.D., Florida; Visiting Associate in Aquaculture Research, Oceanography
- Wilder, Dolores J.**, Ed.D., Tennessee; Visiting Instructor of Educational Leadership
- Wilgenbusch, James C.**, Ph.D., George Mason; Assistant in Research, Computational Science and Information Technology
- **Wilke, Dina J.**, Ph.D., Wisconsin; Assistant Professor of Social Work
- **Wilkens, Paul L.**, Ph.D., Ohio State; Professor of Management
- Williams, Debi J.**, B.S., Assistant Director, Business and Financial/Auxiliary Services, Academic Business Administration-Controller
- Williams, Edward C.**, Ph.D., North Carolina at Chapel Hill; Assistant in Academic Administration, Panama City Campus
- Williams, Iris A.**, Ed.D., Western Michigan; Assistant in Adult Education, Educational Leadership and Policy Studies
- Williams, Kenneth E.**, M.M., University School Instructor, Developmental Research School
- Williams, Marcia A.**, B.S., Coordinator, Academic Support Services, Human Sciences
- Williams, Michael S.**, B.S., Associate Controller, Controller
- Williams, Michael V.**, B.S., Coordinator, Business Financial/Auxiliary Services, Academic Business Administration-Controller
- Williams, Nathalie R.**, B.S., Coordinator, Public Functions, Ringling Museum
- **Williams, Pat W.**, M.F.A., Professor of Art
- Williams, Stephanie L.**, J.D., Faculty Administrator, Law
- Williams, Suzanne D.**, M.A., Assistant in Research, Criminology
- Williams, Vaughan**, B.S., Coordinator, Research Programs/Services, National High Magnetic Field Laboratory
- Williams, Velda**, B.A., Coordinator, Academic Support Services, Public Administration and Policy
- Willingham, Lloyd W.**, M.S., Coordinator, Insurance and Risk, Environmental Health and Safety
- Willis, Benjamin B.**, B.S., Visiting University School Instructor, Developmental Research School
- Willis, Stanley M.**, A.S., Coordinator Computer Applications, Learning Systems Institute-Core Administration Management
- Willoughby, William J.**, B.S., Assistant Director, University Computer Systems, Academic Computer and Network Services
- Wills, Angela D.**, B.S., University School Instructor, Developmental Research School
- Wilson, Robert L.**, B.A., Assistant Director, Intercollegiate Athletics, Intercollegiate Athletics
- Wilson, Victoria A.**, M.S.W., Assistant in Field Instruction, Social Work
- Wiltshire, Michael W.**, B.S., Coordinator, Research Programs/Services, Lab Animal Resources
- Winchester, Denis**, M.B.A., University School Instructor, Developmental Research School
- + **Winchester, John W.**, Ph.D., Massachusetts Institute of Technology; Professor of Oceanography
- Windsor, Dawn S.**, B.S., Coordinator, Internal Auditing, Inspector General
- + **Winegardner, Mark D.**, M.F.A., Janet G. Burroway Professor of English, 2001
- **Wingate, David B.**, M.S., Associate Professor of Music
- **Wingate, Mark L.**, D.M.A., Assistant Professor of Music
- Winger, Ian L.**, B.S., Assistant in Engineering, Physics
- Winkler, Hanspeter**, Ph.D., Swiss Federal Institute of Technology; Associate in Research, Institute for Molecular Biology
- + **Winn, Alice A.**, Ph.D., Michigan State; Associate Professor of Biological Science

- Winnicki, Tomasz M.**, Ph.D., D.Sc., Technical University of Wrocław; Visiting Scholar/Scientist, Center for Biomedical and Toxicological Research
- Winship, Shawn M.**, Coordinator, Academic Support Services, Business
- Winter, Anthony J.**, M.A., Coordinator, Academic Support Services, Undergraduate Services
- Wise, Jean-Marc**, M.A., Instructional Specialist, Center for Professional Development
- + **Wise, Sherwood W.**, Ph.D., Illinois; Lyman D. Toulmin Professor of Geological Sciences, 2001
- Wishart, David P.**, Ph.D., Florida State; Assistant in Research, Mechanical Engineering
- Wishart, Joyce A.**, M.B.A., Assistant Director, Multipurpose Facility, School of Theatre
- Wogamon, Lou A.**, M.A., Visiting Instructor of English
- Wolf, Jolen R.**, J.D., Florida State; Visiting Assistant in Law, Law
- + **Wolfgang, Charles H.**, Ph.D., Pittsburgh; Professor of Educational Theory and Practice
- Wonder, Nancy M.**, Ph.D., Missouri; Visiting Instructor of Human Services and Studies
- Wood, Albert L.**, Ed.D., Louisiana State; Coordinator, Office of Student Services
- Wood, Claudius D.**, B.S., Coordinator, Educational/Training Programs, Family and Child Science
- Wood, Duane A.**, B.F.A., Coordinator, Academic Programs, Motion Picture, Television, and Recording Arts
- Wood, Jane V.**, B.F.A., Visiting Assistant Professor of Dance
- Wood, Martin A.**, B.S., Coordinator, Computer Applications, Center for Tobacco Education
- + **Wood, Susan**, Ph.D., Florida; Assistant Professor of Curriculum and Instruction
- Woodall, Donnie M.**, A.A., Coordinator, Computer Applications, Controller
- Woodall, Sharon D.**, B.S., Assistant Director, Business and Financial Auxiliary Service, Research Foundation
- Woodruff, Stephen L.**, Ph.D., Michigan; Assistant Scholar/Scientist, National High Magnetic Field Laboratory
- + **Woods, Juliann**, Ph.D., Oregon; Visiting Associate Professor of Communication Disorders
- Woodsum, Glenn C.**, M.S., Specialist, Computer Research, Florida Resources and Environmental Analysis Center, Energy and Environment Alliance
- Woodworth, Mary J.**, B.S., Coordinator, Accounting, Controller
- Woodyard, William M.**, J.D., West Virginia University; Assistant in Real Estate, Department of Risk Management and Insurance
- Wooland, James R.**, M.S., Associate in Mathematics, Mathematics
- Word, Natalie W.**, B.S., Coordinator, Student Financial Aid, Financial Aid
- Workman, Donald R.**, Ph.D., Florida State; Assistant in Nursing
- Wright, Clive O.**, M.A., Research Associate, Center for Study of Teaching and Learning
- Wright, Edward N.**, Ph.D., Georgetown; Faculty Administrator and Dean, Panama City Branch
- **Wright, T. Perrin, Jr.**, Ph.D., Wisconsin; Professor of Mathematics
- **Wright, Thomas G.**, M.M., Professor of Music
- Wu, Li-Hsiang**, B.S., Coordinator, Computer Applications, Office of Technology Integration Administrative Information Systems
- Wulff, Jeanette L.**, Ph.D., Yale; Assistant Professor of Biological Science
- Wyatt, Rosemary D.**, M.S., Coordinator, Research Programs/Services, Learning Systems Institute-Core Administration Management
- Wyatt-Magalian, Catherine A.**, M.F.A., Assistant in Art, Art
- Wyckoff, James A.**, B.S., Coordinator, Computer Applications, Office of Technology Integration Administrative Information Systems
- Wynn, Edward J.**, B.S., Coordinator, Accounting, Controller's Office
- Wynn, Shannon**, B.A., Coordinator, Broadcasting, WFSU-TV
- Wynne, Ben R.**, Ph.D., Mississippi; Visiting Assistant Professor of History
- + **Wynot, Edward D.**, Ph.D., Indiana; Professor of History
- Xie, Jinpeng**, Ph.D., Coordinator, Computer Applications, Office of Technology Integration Administrative Information Systems
- Xin, Yan**, Ph.D., Cambridge; Assistant in Research, Office of Research
- + **Xiong, Peng**, Ph.D., Brown; Assistant Professor of Physics
- Yaeger, Glen B.**, M.A., Coordinator, Environmental Health and Safety, Thagard Health Center
- Yancey, Teresa D.**, M.S., University School Instructor, Developmental Research School
- + **Yang, Kun**, Ph.D., Indiana; Assistant Professor of Physics
- Yang, Zenghai**, M.S., Visiting Assistant in Research, Civil and Environmental Engineering
- Yanck, Forrest H.**, Ph.D., Oxford; Assistant in Field, Social Work
- Yao, Yuanzheng**, M.S., Assistant in Oceanographic Computing, Meteorology
- + **Yasinsac, Alec E.**, Ph.D., Virginia; Assistant Professor of Computer Science
- + **Yazdani, Nur**, Ph.D., Maryland; Professor of Civil and Environmental Engineering
- Yeargan, Jonathan K.**, B.S., Coordinator, Physics Administration Systems
- Yetter, John F.**, J.D., Duquesne, LL.M., Yale; Professor of Law
- Yon, Eddie L.**, B.S., Director, University Computer Systems, Office of Technology Integration Administrative Systems
- Yon, Gregory H.**, B.S., Coordinator, Continuing Education, Center for Professional Development and Public Service
- You, Chengxia**, Ph.D., Specialist, Computer Research, Florida Resources and Environmental Analysis Center
- Young, Andrea C.**, Ph.D., Florida State; Visiting Research Associate, Academic Affairs and Distance Learning
- **Young, Eric R.**, Ph.D., Carnegie Mellon; Assistant Professor of Economics
- + **Young, Eutiquio**, Ph.D., Maryland; Professor of Mathematics
- Young, Jean D.**, M.A., Coordinator, Museum Operations, Museum of Fine Arts
- + **Young, Marilyn J.**, Ph.D., Pittsburgh; Wayne C. Minnick Professor of Communication, 2000
- Young, Mary Penelope**, M.A., Assistant in Research of Criminology
- Young, Melissa P.**, M.A., University School Visiting Instructor, Developmental Research School
- + **Young, Patricia Henry**, M.A., Professor of Dance
- Young, William S.**, B.S., Professional Engineer, Campus Design
- Young-Clarke, Iris M.**, M.S., Associate in Human Sciences, Human Sciences
- Youssef, Saul**, Ph.D., Carnegie-Mellon; Scholar/Scientist, School of Computational Science and Information Technology
- Youte Tendoung, Jean Jacques**, Ph.D., Pierre; Visiting Assistant in Research, Chemistry
- + **Yuan, Xin**, Ph.D., Pittsburgh; Visiting Assistant Professor of Computer Science
- + **Zahn, Douglas A.**, Ph.D., Harvard; Professor of Statistics
- Zapata, Dana H.**, B.S., Coordinator, High School/Community College Relations, Community College and Interinstitutional Relations, Vice President for Academic Affairs
- Zaremba, Maureen T.**, B.A., Coordinator, Public Functions, Ringling Museum of Art
- Zavala-Hidalgo, Jorge**, Ph.D., CICESE; Visiting Research Associate of Meteorology
- Zawrotny, Michael E.**, Ph.D., Specialist, Computer Research, Institute of Molecular Biophysics
- Zdenek, Ericka N.**, B.A., Coordinator, Educational/Training Programs, Center for Civic Education and Services
- Zeigler, Mark T.**, M.S., Assistant in Communication
- Zeller, Richard E.**, Ph.D., Ohio State; Visiting Assistant Professor of Geography
- + **Zenz, Gary Joseph**, Ph.D., Wisconsin; Professor of Marketing
- Zervignon-Hakes, Anita M.**, Ph.D., Florida State; Associate in Research, Florida Resources and Environmental Analysis Center
- + **Zhang, Chun**, Ph.D., Iowa; Associate Professor of Industrial Engineering
- Zhang, Tianming**, Ph.D., Coordinator, Computer Applications, Office of Technology Integration Administrative Information Systems
- Zhao, Yunge**, Ph.D., Chinese Academy of Science; Visiting Assistant Scholar/Scientist, Chemistry
- + **Zheng, Jian-Ping**, Ph.D. E.E., State University of New York at Buffalo; Associate Professor of Electrical and Computer Engineering
- Zhou, Huan Xiang**, Ph.D., Drexel; Associate Professor of Physics
- Ziegler, Roy A.**, M.L.S., Librarian and Department Head of University Libraries Collection Development
- Zierden, Benjamin W.**, Coordinator, Intercollegiate Athletics, Athletics
- Zierden, David F.**, M.S., Assistant in Research, Meteorology
- Zimanyi, Laszlo**, Ph.D., Hungary University; Visiting Research Assistant of Chemistry
- + **Zindler, Gregory Alan**, Ph.D., Massachusetts Institute of Technology; Professor of Geological Sciences
- Zindler, Patricia A.**, M.A., Visiting Assistant in Research, Center for Prevention and Early Intervention
- Zlotnikoff, Tia S.**, B.A., Coordinator, Academic Support Services, Undergraduate Studies
- **Zollar, Willa Jo**, M.F.A., Nancy Smith Fichter Professor of Dance, 1999
- + **Zou, Xiaoli**, Ph.D., Institute of Atmospheric Physics; Professor of Meteorology
- + **Zuehlke, Thomas W.**, Ph.D., Florida; Associate Professor of Economics
- Zurko, Max J.**, M.S., University School Instructor, Developmental Research School
- + **Zwaan, Rolf A.**, Ph.D., Utrecht; Professor of Psychology
- Zwaan-Dijkstra, Katinka**, Ph.D., Utrecht; Visiting Assistant in Psychology
- Zwlich, Ellen T.**, D.M.A., Julliard; Francis Eppes Professor of Music

DISTINGUISHED RESEARCH PROFESSORS

- Harper, William C.**, M.S., Distinguished Research Professor, 1990–1991, Professor of Studio Art (Retired)
- O'Brien, James J.**, Ph.D., 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
- Tam, Christopher K. W.**, Ph.D., California Institute of Technology; Distinguished Research Professor, 1990–1991, Robert O. Lawton Distinguished Professor, 2000–2001, Professor of Mathematics and Mechanical Engineering
- Loper, David E.**, Ph.D., Case Western Reserve University; Distinguished Research Professor, 1991–1992, George W. DeVore Professor of Geological Sciences, 1999, and Director, Geophysical Fluid Dynamics Institute
- Parker, Glenn R.**, Ph.D., California; Distinguished Research Professor, 1991–1992, Professor of Political Science
- Benson, Bruce L.**, Ph.D., Texas A&M; Distinguished Research Professor, 1992–1993, Professor of Economics
- Graziadei, Pasquale P.**, M.D., Pavia, Italy; Distinguished Research Professor, 1992–1993, Professor of Biological Science (Retired)
- Summers, Devitt L.**, Ph.D., Cambridge; Distinguished Research Professor, 1992–1993, Robert O. Lawton Distinguished Professor, 1997–1998, and Professor of Mathematics
- Kemper, Kirby W.**, Ph.D., Indiana; Distinguished Research Professor, 1993–1994, John David Fox Professor of Physics, 2000, and Robert O. Lawton Distinguished Professor, 2002–2003
- Nam, Charles B.**, Ph.D., North Carolina; Distinguished Research Professor, 1993–1994, Professor of Sociology (Retired)
- Turner, Ralph V.**, Ph.D., Johns Hopkins; Distinguished Research Professor, 1993–1994, Service Professor of History
- Bryant, John L.**, Ph.D., Georgia; Distinguished Research Professor, 1994–1995, Professor of Mathematics
- Freeman, Marc E.**, Ph.D., West Virginia; Distinguished Research Professor, 1994–1995, Lloyd M. Beidler Professor of Biological Science, 2000
- Owens, Joseph F., III**, Ph.D., Tufts; Distinguished Research Professor, 1994–1995, Chair and Guenter Schwarz Professor of Physics, 2000
- Hollander, Myles**, Ph.D., Stanford; Distinguished Research Professor, 1995–1996, Robert O. Lawton Distinguished Professor, 1998–1999, and Professor of Statistics
- James, Frances C.**, Ph.D., Arkansas; Distinguished Research Professor, 1995–1996, Pasquale Graziadei Professor of Biological Science, 1999
- Stern, Melvin E.**, Ph.D., Massachusetts Institute of Technology; Distinguished Research Professor, 1995–1996, V. W. Ekman Professor of Oceanography, and National Academy of Sciences
- Pfeffer, Richard**, Ph.D., Massachusetts Institute of Technology; Distinguished Research Professor, 1996–1997, Carl-Gustaf Rossby Professor of Meteorology
- Torgesen, Joseph**, Ph.D., Michigan; Distinguished Research Professor, 1996–1997, Robert M. Gagne Professor of Psychology and Education, 2000, and Professor of Psychology
- Van Sciver, Steven W.**, Ph.D., Washington; Distinguished Research Professor, 1996–1997, Professor of Mechanical Engineering
- Hagopian, Vasken**, Ph.D., Pennsylvania; Distinguished Research Professor, 1997–1998, Joseph E. Lannutti Professor of Physics, 1999
- Myles, John F.**, Ph.D., Wisconsin; Distinguished Research Professor, 1997–1998, Professor of Sociology
- Nicholson, Sharon E.**, Ph.D., Wisconsin; Distinguished Research Professor, 1997–1998, Heinz and Katharina Lettau Professor of Climatology, 2002, and Professor of Meteorology
- Balkwill, David L.**, Ph.D., Pennsylvania State; Distinguished Research Professor, 1998–1999, Professor of Biological Science
- Hirsh, Barry T.**, Ph.D., Virginia; Distinguished Research Professor, 1998–1999, Professor of Economics
- Marshall, Alan George**, Ph.D., Stanford; Distinguished Research Professor, 1998–1999, Kasha Professor of Chemistry, 1999

Gontarski, Stanley E., Ph.D., Ohio State; Distinguished Research Professor, 1999–2000, Sarah Herndon Professor of English, 1999

Holton, Robert A., Ph.D., Florida State; Distinguished Research Professor, 1999–2000, Matthew Suffess Professor of Chemistry, 2002

Clarke, Allan J., Ph.D., Cambridge; Distinguished Research Professor, 2000–2001, Adrian E. Gill Professor of Oceanography, 2001

Cross, Timothy A., Ph.D., Pennsylvania; Distinguished Research Professor, 2000–2001, Earl Frieden Professor of Chemistry and Biochemistry, 2002

Olsen, Dale A., Ph.D., California at Los Angeles; Distinguished Research Professor, 2000–2001, Professor of Music

Fenstermaker, John J., Ph.D. Ohio State; Distinguished Research Professor, 2001–2002, Distinguished Teaching Professor, 2000–2001, Fred L. Standley Professor of English, 2002

Tabor, Samuel, Ph.D., Stanford; Distinguished Research Professor, 2001–2002, Professor of Physics

Taylor, Kenneth A., Ph.D. California at Berkeley; Distinguished Research Professor 2001–2002, Professor of Biological Science

Dalal, Nar S., Ph.D., British Columbia; Dirac Professor of Chemistry, 2001, Distinguished Research Professor, 2002–2003, and Chair of Chemistry

Nof, Doron, Ph.D., Wisconsin; Distinguished Research Professor, 2002–2003, and Fridtjof Nansen Professor of Oceanography, 2001

Tschinkel, Walter R., Ph.D., California at Berkeley; Distinguished Research Professor, 2002–2003, and Margaret Y. Menzel Professor of Biological Science, 1999

DISTINGUISHED TEACHING PROFESSORS

Clark, Ronald J., Ph.D., Kansas; Distinguished Teaching Professor, 1989–1990, Professor of Chemistry

Hofer, Kurt G., Ph.D., Vienna; Distinguished Teaching Professor, 1989–1990, Robert O. Lawton Distinguished Professor, 1994–1995, Professor of Biological Science

Howard, Donald D., Ph.D., Minnesota; Distinguished Teaching Professor, 1989–1990, Eminent Scholar and Professor of History

Madsen, Clifford K., Ph.D., Florida State; Distinguished Teaching Professor, 1989–1990, Alumni Professor, 1985–1988, Robert O. Lawton Distinguished Professor, 1988–1989, Professor of Music

Mellon, Edward K., Ph.D., Texas; Distinguished Teaching Professor, 1989–1990, Chair and Professor of Chemistry (Retired)

Jones, James P., Ph.D., Florida; Distinguished Teaching Professor, 1990–1991, Professor of History

Lhamon, W. T., Jr., Ph.D., Indiana; Distinguished Teaching Professor, 1990–1991, George M. Harper Professor of English, 2000

Rashotte, Michael E., Ph.D., Toronto; Distinguished Teaching Professor, 1990–1991, Professor of Psychology

Rogers, William W., Ph.D., North Carolina; Distinguished Teaching Professor, 1990–1991, Professor of History (Retired)

Sandon, Leo, Ph.D., Boston; Distinguished Teaching Professor, 1990–1991, Chair and Professor of Religion, and Director, Program in American Studies

Burroway, Janet G., M.A., Distinguished Teaching Professor, 1991–1992, Service Professor of English, Robert O. Lawton Distinguished Professor, 1995–96, and Mckenzie Professor, 1986

Levenson, David B., Ph.D., Harvard; Distinguished Teaching Professor, 1992–1993, Associate Professor of Religion

Smith, James C., Ph.D., Florida State; Distinguished Teaching Professor, 1993–1994, Professor of Psychology, Robert O. Lawton Distinguished Professor, 1992–1993

Leach, Stephen P., Ph.D., Florida State; Distinguished Teaching Professor, 1994–1995, Assistant Scholar/Scientist of Computer Science

Walker, Eric C., Ph.D., North Carolina at Chapel Hill; Distinguished Teaching Professor, 1995–1996, Associate Professor of English

Darling, Carol A., Ph.D., 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., Ph.D., North Carolina; Distinguished Teaching Professor, 1997–1998, Associate Professor of Chemistry

Moore, Dennis D., Ph.D., North Carolina; Distinguished Teaching Professor, 1998–1999, Associate Professor of English

Reiser, Robert A., Ph.D., Arizona State; Distinguished Teaching Professor, 1999–2000, Professor of Educational Research

Fenstermaker, John J., Ph.D., Ohio State; Distinguished Teaching Professor, 2000–2001, Distinguished Research Professor, 2001–2002, Fred L. Standley Professor of English, 2002

Sathe, Shridhar, Ph.D., Utah State; Distinguished Teaching Professor, 2002–2003, D.K. Salunkhe Professor of Food Science, 2001, and Professor of Nutrition, Food and Exercise Sciences

McKENZIE PROFESSORS

Berkley, Karen J., Ph.D., Washington; McKenzie Professor 1989, Professor of Psychology

Burroway, Janet G., M.A., McKenzie Professor 1986, Service Professor of English

Dye, Thomas R., Ph.D., Pennsylvania; McKenzie Professor 1986, Service Professor of Political Science

Hintikka, Jaako, Ph.D., Helsinki, Finland; McKenzie Professor 1986–1990, Professor of Philosophy (Retired)

Howard, Louis N., Ph.D., Princeton; McKenzie Professor 1986, Professor of Mathematics (Retired)

Hunter, Christopher, Ph.D., Cambridge; McKenzie Professor 1991, Chair and Professor of Mathematics

Kirby, David K., Ph.D., Johns Hopkins; Robert O. Lawton Distinguished Professor, 2003–2004, Professor of English, McKenzie Professor, 1989

Winstead, William O., M.M., McKenzie Professor 1986–1988, Professor of Music (Resigned)

DAISY PARKER FLORY ALUMNI PROFESSORS

Madsen, Clifford K., Ph.D., Florida State; Alumni Professor 1985–1988, Distinguished Professor 1988–1989, Distinguished Teaching Professor, 1989–1990, Professor of Music

Martin, Patricia Y., Ph.D., Florida State; Alumni Professor 1989, Professor of Sociology

Standley, Fred L., Ph.D., Northwestern; Alumni Professor 1985, Professor of English

THE PRESIDENT AND THE PROVOST'S NAMED PROFESSORSHIP PROGRAM

Baer, Howard A., Ph.D., Wisconsin; J. Daniel Kimel Professor of Physics, 2002

Beckham, Joseph C., J.D., Ph.D., Florida; Allan Tucker Professor of Educational Policy Studies and Leadership, 2000, Professor of Educational Leadership

Berry, William D., Ph.D., Minnesota; Marian D. Irish Professor of Political Science, 1999

Bickley, R. Bruce, Jr., Ph.D., Duke; Griffith T. Pugh Professor of English, 2002

Bishop, Wendy, Ph.D., Indiana of Pennsylvania; Kellogg W. Hunt Professor of English, 2000

Blomberg, Thomas G., D.Crim., Berkeley; Sheldon L. Messinger Professor of Criminology, 2001

Boehrer, Bruce T., Ph.D., Pennsylvania; Bertram H. Davis Professor of English, 2001

Bowers, Philip L., Ph.D., Tennessee; Dwight B. Goodner Professor of Mathematics, 2002 and Associate Chair of Mathematics

Bridger, Carolyn A., D.M.A., Iowa; John Boder Professor of Music, 2002

Brooks, James S., Ph.D., Oregon; Grace C. and Willian G. Moulton Professor of Physics, 2002

Bryant, John L., Ph.D., Georgia; Distinguished Research Professor, 1994–1995, Orville G. Harrold Professor of Mathematics, 2000

Burnett, William C., Ph.D., Hawaii; Carl Henry Oppenheimer Professor of Oceanography, 2002

Chandra, Namas, Ph.D., Texas A&M; Krishnamurty Karamcheti Professor of Engineering, 2000, and Professor of Mechanical Engineering

Chanton, Jeffrey P., Ph.D., North Carolina; John Widmer Winchester Professor of Oceanography, 2002, and Professor of Oceanography and Geological Sciences

Clarke, Allan J., Ph.D., Cambridge; Distinguished Research Professor, 2000–2001, Adrian E. Gill Professor of Oceanography, 2001

Cloonan, William J., Ph.D., North Carolina at Chapel Hill; Richard L. Chapple Professor of Modern Languages and Linguistics, 1999

Coats, Pamela K., Ph.D., Nebraska at Lincoln; Robert C. Earnest Professor of Finance, 2002

Connerly, Charles E., Ph.D., Michigan; William G. and Budd Bell Professor of Urban and Regional Planning, 2002, and Chair of Urban and Regional Planning

Contreras, Robert J., Ph.D., Michigan State; James C. Smith Professor of Psychology, 2002, and Director of Neuroscience

Cross, Timothy A., Ph.D., Pennsylvania; Distinguished Research Professor, 2000–2001, Earl Frieden Professor of Chemistry and Biochemistry, 2002

Dagotto, Elbio R., Ph.D., Instituto Balseiro; Edward A. Desloge Professor of Physics, 2001, and Scholar/Scientist, School of Computational Science and Information Technology

Dalal, Nar S., Ph.D., British Columbia; Dirac Professor of Chemistry, 2001, Distinguished Research Professor, 2002–2003, and Chair of Chemistry

Darling, Carol A., Ph.D., Michigan State; Margaret Rector Sandels Professor of Human Sciences, 1999, Distinguished Teaching Professor, 1996–1997, and Professor of Family and Child Sciences

de Grummond, Nancy T., Ph.D., North Carolina; M. Lynette Thompson Professor of Classics, 1999

Delp, Roy E., M.M., Walter S. James Professor of Voice, 2001, Professor of Music

Dewar, William K., Ph.D., Massachusetts Institute of Technology; Pierre Welander Professor of Oceanography, 2001, and Faculty Associate, School of Computational Science and Information Technology

Dorsey, John, Ph.D., Cincinnati; Katherine Blood Hoffman Professor of Chemistry, 2000

Driscoll, Marcy P., Ph.D., Massachusetts; Leslie J. Briggs Professor of Educational Research, 2002, and Chair of Educational Psychology and Learning Systems

Eberstein, Isaac Warren, Ph.D., 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, Ph.D., Rhode Island; Michael J. Greenberg Professor of Biological Sciences, 2001, and Director, Institute of Molecular Biophysics

Fenstermaker, John J., Ph.D., Ohio State; Distinguished Teaching Professor, 2000–2001, Distinguished Research Professor 2001–2002, Fred L. Standley Professor of English, 2002

Fernandez, Roberto G., Ph.D., Florida State; Dorothy Lois Breen Hoffman Professor of Modern Languages and Linguistics, 2001

Fiorito, Jack T., Ph.D., Illinois; J. Frank Dame Professor of Management, 1999

Fisk, Zachary, Ph.D., California at San Diego; Paul A.M. Dirac Professor of Physics, 1999, National Academy of Sciences

Freeman, Marc, Ph.D., West Virginia; Distinguished Research Professor, 1994–1995, Lloyd M. Beidler Professor of Biological Science, 2000

Geringer, John M., Ph.D., Florida State; Lewis V. Panbaskie Professor of Music, 2001, and Director, Center for Music Research

Goldsmith, Ronald E., Ph.D., Alabama; Richard M. Baker Professor of Marketing, 2001

Gontarski, Stanley E., Ph.D., Ohio State; Distinguished Research Professor, 1999–2000, Sarah Herndon Professor of English, 1999

Hagopian, Vasken, Ph.D., Pennsylvania; Distinguished Research Professor, 1997–1998, Joseph E. Lannutti Professor of Physics, 1999

Hahn, Cynthia, Ph.D., Johns Hopkins; Gulnar K. Bosch Professor of Art History, 2000

Hardy, Melissa, Ph.D., Indiana; Raymond F. Bellamy Professor of Sociology, 2000, and Program Director, Pepper Institute on Aging

Haymes, Emily M., Ph.D., Pennsylvania State; C. Etta Walters Professor of Exercise Science, 2000, and Professor of Nutrition, Food, and Exercise Sciences

Held, Gary R., Ph.D., Michigan State; Theodore Clevenger, Jr. Professor of Communication, 2001, and Associate Dean of Communication

Herrnkind, William F., Ph.D., Miami; Robert K. Godfrey Professor of Biological Science, 2000

Hirsch, Adam J., Ph.D., J.D., Yale; David M. Hoffman Professor of Law, 2002

James, Frances C., Ph.D., Arkansas; Pasquale Graziadei Professor of Biological Science, 1999, Distinguished Research Professor, 1995–1996

Joiner, Thomas, Ph.D., Texas at Austin; Bright-Burton Professor of Psychology, 2000

Junonville, Neil T., Ph.D., Harvard; William Warren Rogers Professor of History, 1999

Kacmar, K. Michele, Ph.D., Texas A&M; Charles A. Rovetta Professor of Management, 2000

Kelsay, John, Ph.D., Virginia; Richard L. Rubenstein Professor of Religion, 2000, and Chair of Religion

Kemper, Kirby, Ph.D., Indiana; Distinguished Research Professor, 1993–1994, Robert O. Lawton Distinguished Professor, 2002–2003, John David Fox Professor of Physics, 2000, 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.M.A., Catholic; Joseph A. White Professor of Music, 2000

Krafft, Marie E., Ph.D., Virginia Polytechnic Institute; Martin A. Schwartz Professor of Chemistry and Biochemistry, 2002

Lang, Alan R., Ph.D., Wisconsin; R. Robert Browning Professor of Psychology, 2001

Lhamon, William T., Ph.D., Indiana; Distinguished Teaching Professor, 1990–1991, George M. Harper Professor of English, 2000

Loper, David E., Ph.D., Case Western Reserve; Distinguished Research Professor, 1991–1992, George W. DeVore Professor of Geological Sciences, 1999, and Director, Geophysical Fluid Dynamics Institute

MacPherson, David A., Ph.D., Pennsylvania; Abba Lerner Professor of Economics, 1999

Marcus, Nancy H., Ph.D., Yale; Robert O. Lawton Distinguished Professor, 2001–2002, Mary Sears Professor of Oceanography

Marshall, Alan G., Ph.D., Stanford; Distinguished Research Professor, 1998–1999, Kasha Professor of Chemistry, 1999

McElrath, Joseph R., Ph.D., South Carolina; William Hudson Rogers Professor of English, 1999

McKeague, Ian, Ph.D., North Carolina; Ralph A. Bradley Professor of Statistics, 2000

McNeece, C. Aaron, Ph.D., Michigan; Walter W. Hudson Professor of Social Work, 2000

Moffatt, Robert J., Ph.D., Michigan; Georgia Alice Stamford Professor of Exercise Science, 2000, and Chair of Nutrition, Food, and Exercise Sciences

Nicholson, Sharon E., Ph.D., Wisconsin; Distinguished Research Professor, 1997–1998, Heinz and Katharina Lettau Professor of Climatology, 2001, and Professor of Meteorology

Nof, Doron, Ph.D., Wisconsin; Distinguished Research Professor, 2002–2003, and Fridtjof Nansen Professor of Oceanography, 2001

Ortiz-Taylor, Sheila, Ph.D., California at Los Angeles; Francis G. Townsend Professor of English, 2000

Outlaw, William H., Jr., Ph.D., Georgia; Peter H. Homann Professor of Biological Science, 2001

Owens, Joseph, Ph.D., Tufts; Distinguished Research Professor, 1994–1995, Guenter Schwarz Professor of Physics, 2000

Peters, Michael, Ph.D., Ohio State; Elvin J. Dantin Professor of Engineering, 2000, and Chair of Chemical Engineering

Pfeffer, Richard L., Ph.D., Massachusetts Institute of Technology; Distinguished Research Professor, 1996–1997, Carl-Gustaf Rossby Professor of Meteorology, 1999

Pietralunga, Mark F., California at Berkeley; Victor Oelschlagler Professor of Modern Languages, 2000, and Chair of Modern Languages and Linguistics

Portman, Richard R., Gordon Sawyer Professor of Recording Arts, 1999, and Assistant in Film, School of Motion Picture, Television, and Recording Arts

Quine, John R., Ph.D., Michigan; Charles W. McArthur Professor of Mathematics, 2002

Rasmussen, David, Ph.D., Washington; James H. Gapinski Professor of Economics, 2000, Director, DeVoe L. Moore and Family Center for Critical Issues

Riley, Mark, Ph.D., Liverpool; Raymond K. Sheline Professor of Physics, 2000

Roberts, Thomas M., Ph.D., Notre Dame; Robert B. Short Professor of Biological Science, 2002, and Chair of Biological Science

Ruhl, John B., LL.M., George Washington; J.D., Virginia; Joseph Story Professor of Law, 2001

Sathe, Shridhar, Ph.D., Utah State; Distinguished Teaching Professor, 2002–2003, D.K. Salunkhe Professor of Food Science, 2001, and Professor of Nutrition, Food and Exercise Sciences

Seaton, S. Douglass, Ph.D., Columbia; Warren D. Allen Professor of Music, 2002

Standley, Jayne, Ph.D., Florida State; Ella Scoble Opperman Professor of Music, 2000

Stephan, Friedrich, Ph.D., California at Berkeley; Curt P. Richter Professor of Psychology and Neuroscience, 2000

Stern, Melvin E., Ph.D., Massachusetts Institute of Technology; Distinguished Research Professor, 1995–1996, National Academy of Sciences, V.W. Ekman Professor of Oceanography, 1999

Tatum, W. Jeffrey, Ph.D., Texas; Olivia Nelson Dorman Professor of Classics, 2000, Chair of Classics

Thomas Andre, D.M.A., Illinois; Owen F. Sellers Professor of Music, 1999

Torgesen, Joseph, Ph.D., Michigan; 1996–1997, Robert M. Gagne Professor of Psychology and Education, 2000 Distinguished Research Professor

Tschinkel, Walter R., Ph.D., California at Berkeley; Distinguished Research Professor, 2002–2003, and Margaret Y. Menzel Professor of Biological Science, 1999

Von Molnar, Stephan, Ph.D., California at Riverside; Robert A. Kromhout Professor of Physics, 2001, and Director, Center for Materials Research and Technology

Wagner, Richard K., Ph.D., Yale; Alfred Binet Professor of Psychology, 1999

Wang, Hsu-Pin (Ben), Ph.D., Pennsylvania State; Simon Ostrach Professor of Engineering, 2000, and Chair of Industrial Engineering

Wetherby, Amy, Ph.D., California at Santa Barbara; Laurel L. Schendel Professor of Communication Disorders, 2000

Winegardner, Mark D., M.F.A., Janet G. Burroway Professor of English, 2001

Wise, Sherwood W., Ph.D., Illinois; Lyman D. Toulmin Professor of Geological Sciences, 2001

Young, Marilyn, Ph.D., Pittsburgh; Wayne C. Minnick Professor of Communication, 2000

Zollar, Jawole Willa Jo, M.F.A., Nancy Smith Fichter Professor of Dance, 1999

THE ROBERT O. LAWTON DISTINGUISHED PROFESSORS

Rogers, William Hudson, Ph.D., Virginia; Distinguished Professor 1957–1958, Professor of English, (Deceased 7/11/75)

Irish, Marian Doris, Ph.D., Yale; Distinguished Professor 1958–1959, Professor and Chair of Political Science (Deceased 11/11/01)

Liddell, Anna Forbes, Ph.D., North Carolina; Distinguished Professor 1959–1960, Professor of Philosophy (Deceased 8/30/79)

Burroway, Ernest Max, Ph.D., California; Distinguished Professor 1960–1961, Professor of Chemistry (Resigned)

Housewright, Wiley Lee, Ed.D., New York; Distinguished Professor 1961–1962, Professor and Dean, School of Music (Retired)

Kasha, Michael, Ph.D., California; Distinguished Professor 1962–1963, Professor of Chemistry and Director, Institute of Molecular Biophysics (Retired)

Hoffman, Dorothy Lois Breen, Ph.D., Illinois; Distinguished Professor 1963–1964, Professor of Modern Languages and Linguistics (Deceased 3/7/85)

Floyd, Carlisle, Jr., M.M., Distinguished Professor 1964–1965, Professor of Music (Resigned)

Watts, Betty Monaghan, Ph.D., Washington, St. Louis; Distinguished Professor 1965–1966, Professor of Food and Nutrition (Retired)

Sheline, Raymond K., Ph.D., California at Berkeley; Distinguished Professor 1966–1967, Professor of Chemistry and Physics, and Royal Danish Academy of Science and Letters (Retired)

Choppin, Gregory R., Ph.D., Texas; Sc.D., Loyola; Distinguished Professor 1967–1968, Professor of Chemistry

Nichols, Eugene D., Ph.D., Illinois; Distinguished Professor 1968–1969, Professor and Head of Mathematics Education (Retired)

Frieden, Earl, Ph.D., Southern California; Distinguished Professor 1969–1970, Professor of Chemistry (Retired)

Bradley, Ralph Allan, Ph.D., North Carolina; Distinguished Professor 1970–1971, Professor and Head of Statistics (Deceased 10/30/01)

Beidler, Lloyd Mumbauer, Ph.D., Johns Hopkins; Distinguished Professor 1971–1972, Professor of Biological Science (Retired)

Hunt, Kellogg Wesley, Ph.D., Iowa; Distinguished Professor 1972–1973, Professor of English (Deceased 11/4/98)

Savage, I. Richard, Ph.D., Columbia; Distinguished Professor 1973–1974, Professor of Statistics (Resigned)

Kenshalo, Daniel Ralph, Ph.D., Washington; Distinguished Professor 1974–1975, Professor of Psychology (Retired)

Fallon, Richard Gordon, M.A., Distinguished Professor 1975–1976, Professor and Dean, School of Theatre (Retired)

Nikolaidi, Elena, Distinguished Professor 1976–1977, Professor of Music (Deceased 11/14/02)

Rubenstein, Richard Lowell, Ph.D., Harvard; Distinguished Professor 1977–1978, Professor of Religion (Retired)

Hess, Seymour L., Ph.D., Chicago; Distinguished Professor 1978–1979, Professor of Meteorology (Deceased 1/15/82)

Harper, George M., Ph.D., North Carolina; Distinguished Professor 1979–1980, Professor of English (Retired)

Walborsky, Harry M., Ph.D., Ohio State; Distinguished Professor 1980–1981, Professor of Chemistry (Deceased 10/15/02)

Gilmer, Robert, Ph.D., Louisiana State; Distinguished Professor 1981–1982, Professor of Mathematics

Gagne, Robert M., Ph.D., Brown; Distinguished Professor 1982–1983, Professor of Research, Development, and Foundations (Retired)

Taylor, J. Herbert, Ph.D., Virginia; Distinguished Professor 1983–1984, Professor of Biological Sciences, and Program Director, Institute of Molecular Biophysics (Deceased 12/29/98)

Mandelkern, Leo, Ph.D., Cornell; Distinguished Professor 1984–1985, Professor of Chemistry (Retired)

Proschan, Frank, Ph.D., Stanford; Distinguished Professor 1984–1985, Professor of Statistics (Retired)

Krishnamurti, Tiruvalam N., Ph.D., Chicago; Distinguished Professor 1985–1986, Professor of Meteorology

Simberloff, Daniel, Ph.D., Harvard; Distinguished Professor 1986–1987, Professor of Biological Science (Resigned)

Herz, Werner, Ph.D., Colorado; Distinguished Professor 1987–1988, Robert O. Lawton Professor of Chemistry (Retired)

Madsen, Clifford K., Ph.D., Florida State; Distinguished Professor 1988–1989, Alumni Professor 1985–1988, Distinguished Teaching Professor 1989–1990, Professor of Music

Greaves, Richard L., Ph.D., London; Distinguished Professor 1989–1990, Professor of History

Robson, Donald, Ph.D., Melbourne, Australia; Distinguished Professor 1990–1991, Professor of Physics, and Scientist/Scholar, School of Computational Science and Information Technology

Fichter, Nancy Smith, Ph.D., Texas Woman's University; Distinguished Professor 1991–1992, Chair and Professor of Dance (Retired)

Friedmann, E. Imre, Ph.D., Vienna; Distinguished Professor 1991–1992, Professor of Biological Science (Retired)

Smith, James C., Ph.D., Florida State; Distinguished Professor 1992–1993, Distinguished Teaching Professor 1993–1994, Professor of Psychology

Sethuraman, Jayaram, Ph.D., Indian Statistical Institute; Distinguished Professor 1993–1994, Professor of Statistics

Hofer, Kurt G., Ph.D., Vienna; Distinguished Professor 1994–1995, Distinguished Teaching Professor 1989–1990, Professor of Biological Science

Burroway, Janet G., M.A., Distinguished Professor 1995–1996, McKenzie Professor, Service Professor of English

Travis, Joseph, Ph.D., Duke; Distinguished Professor 1996–1997; Professor of Biological Science

Summers, Dewitt L., Ph.D., Cambridge; Distinguished Research Professor, 1992–1993, Distinguished Professor 1997–1998, and Professor of Mathematics

Hollander, Myles, Ph.D., Stanford; Distinguished Professor, 1998–1999, Distinguished Research Professor, 1995–1996, Professor of Statistics

O'Brien, James J., Ph.D., Texas A&M; Distinguished Professor, 1999–2000, Distinguished Research Professor, 1990–1991, Professor of Meteorology and Oceanography, and Russian Academy of Natural Science

Tam, Christopher K. W., Ph.D., 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

Marcus, Nancy H., Ph.D., Yale; Distinguished Professor, 2001–2002, Mary Sears Professor of Oceanography, 2000, and Director, Program for Women in Math, Science, and Engineering

Kemper, Kirby W., Ph.D., Indiana; Distinguished Professor, 2002–2003, Chair and Professor of Physics, and John David Fox Professor of Physics, Distinguished Research Professor, 1993–1994

Kirby, David K., Ph.D., Johns Hopkins; Distinguished Professor, 2003–2004, Professor of English, McKenzie Professor, 1989

NATIONAL ACADEMY OF SCIENCES THE FLORIDA STATE UNIVERSITY MEMBERS

Beidler, Lloyd, Ph.D., Johns Hopkins; Distinguished Professor 1971–1972, Professor of Biological Science (Retired)

Caspar, Donald L., Ph.D., Yale; Professor of Biological Science

Fisk, Zachary, Ph.D., California at San Diego, Paul A.M. Dirac Professor of Physics, 1999

Howard, Louis, Ph.D., Princeton; McKenzie Professor 1986, Professor of Mathematics (Retired)

Kasha, Michael, Ph.D., California at Berkeley; Distinguished Professor 1962–1963, Professor of Chemistry/Institute of Molecular Biophysics (Retired)

Schrieffer, John R., Ph.D., Illinois; Nobel Laureate in Physics, 1972; Professor of Physics, National High Magnetic Field Laboratory

Stern, Melvin E., Ph.D., Massachusetts Institute of Technology; Distinguished Research Professor, 1995–1996, V.W. Ekman Professor of Oceanography, 1999

Taylor, J. Herbert, Ph.D., Robert O. Lawton Distinguished Professor 1983–1984, Service Professor of Biological Science (Deceased 12/29/98)

FOREIGN ACADEMIES THE FLORIDA STATE UNIVERSITY MEMBERS

Boyd, Monica, Ph.D., Duke; Mildred and Claude Pepper Distinguished Professor of Sociology, and Royal Society of Canada

O'Brien, James J., Ph.D., 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
Sheline, Raymond K., Ph.D., 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 LAUREATE

Schrieffer, John R., Ph.D., Illinois; Professor of Physics, Nobel Laureate in Physics, 1972

RETIRED FACULTY

* Professor Emeritus

• Distinguished Professor Emeritus

- * **Aaron, Shirley**, (1975–1994), Ph.D., Professor of Information Studies
- * **Abcarian, Gilbert**, (1967–1992), Ph.D., Professor of Political Science
- * **Adam, Eleanore**, (1953–1979), M.A., Chair and Professor of Textiles and Consumer Sciences
- * **Adams, Jane L.**, (1946–1966), M.A., Assistant Professor and Night Director, University Union
- * **Albertson, Robert W.**, (1955–1998) University School Associate Professor, Developmental Research School
- * **Albrecht, Grace**, (1950–1973), M.C.S., Research Associate and Assistant to the Vice President for Academic Affairs
- * **Albright, John R.**, (1963–1995), Ph.D., Professor of Physics
- * **Alderman, Nelda Cumming**, (1952–1976), M.S., Assistant Professor, Developmental Research School
- * **Alderson, John J.**, (1968–1992), M.S.W., Professor of Social Work
- * **Alexander, Lucille C.**, (1981–1995), B.S., Assistant in Nursing, School of Nursing
- * **Alford, Attie America**, (1947–1968), M.A., Assistant Professor and Assistant Librarian, Library
- * **Allbritton, Carol H.**, (1966–1968, 1969–1989), B.S., University School Instructor, Developmental Research School
- * **Allen, Ruby**, (1978–1999), Ph.D., Professor of Theatre and Assistant Program Director, Asolo State Theatre
- * **Almarode, Richard**, (1962–1994), M.S., Associate Professor of Hospitality
- * **Armstrong, W. Earl**, (1964–1969), Ed.D., Professor of Higher Education
- * **Auer, Emma**, (1969–1976), Professor of Marketing
- * **Avery, Carol E.**, (1979–1995), Ph.D., Chair and Professor of Textiles and Consumer Science
- * **Baker, Barbara N.**, (1971–1993), M.S., Research Associate, Institute of Molecular Biophysics
- * **Baker, Howard D.**, (1950–1991), Ph.D., Professor of Psychology
- **Baker, Mae-Louise**, (1979–1996), M.A., M.S., Associate Professor of Theatre
- * **Baker, Richard M., Jr.**, (1950–1969), Ph.D., Professor of Marketing
- * **Ballard, Lois Schnoor**, (1948–1964), M.M., Associate Professor of Music
- * **Ballas, Parascho P.**, (1978–1979), M.S., Lecturer/Field Representative, Hospitality Education Program, College of Business
- * **Balsler, Benedict S.**, (1993–2002), Ed.S., Coordinator, Academic Services, Education
- * **Banghart, Frank W.**, (1965–1991), Ed.D., Professor of Educational Leadership
- * **Barber, Donna M.**, (2001–2002), M.S., Associate in Research, Institute for Science and Public Affairs
- * **Barnes, Ailene Barger Thompson**, (1954–1957), M.A., Assistant Professor of English
- * **Barnes, Lehman W.**, (1970–1991), Ph.D., Associate Professor of Childhood Education
- * **Bartlett, Richard A.**, (1955–1989), Ph.D., Professor of History
- * **Bashinski, Marian C.**, (1966–1986), M.A., Associate Professor of English
- * **Bass, Edwin J.**, (1969–2002), Ed.D., Associate Professor of Physical Education
- * **Bassin, Alexander**, (1968–1995), Ph.D., Professor of Criminology and Criminal Justice

- * **Beard, Jacob G.**, (1966–1997), Ph.D., Professor of Educational Research
- * **Beard, Robert W.**, (1960–1998), Ph.D., Professor of Philosophy
- * **Bedi, Hardip S.**, (1986–1998), Ph.D., Research Associate, Meteorology
- **Beidler, Lloyd M.**, (1950–1993), Ph.D., LL.D., Professor of Biological Science, Robert O. Lawton Distinguished Professor 1971–1972
- * **Bell, Frederick W.**, (1973–2001), Ph.D., Professor of Economics
- * **Bell, Trevor**, (1972–1996), National Diploma in Painting, Service Professor of Studio Art
- * **Bender, Louis W.**, (1970–1991), Ed.D., Professor of Educational Leadership
- * **Bjerregaard, Carl E.**, (1976–1993), M.M., Professor of Music
- * **Black, Homer A.**, (1958–1989) C.P.A., Ph.D., Professor of Accounting
- * **Black, Sarah Anne**, (1960–1985), M.Ed., University School Associate Professor, Developmental Research School
- * **Blake, Garth K.**, (1957–1996), Ed.D., Service Professor of Educational Leadership
- * **Bland, Larson M.**, (1982–1998), Ed.D., Academic Administrator and Dean Emeritus, Panama City Branch Campus
- * **Bock, John C.**, (1983–1998), Ph.D., Professor of Educational Foundations and Policy Studies, and Director, Center for International Studies, Learning Systems Institute
- * **Bolden, John H.**, (1973–1988), Ed.D., Professor of Educational Leadership
- * **Bolick, Mildred Irene**, (1936–1965), Ph.D., Professor of Zoology and Biological Science
- * **Bolin, Calvin E.**, (1961–1983), M.Ed., University School Associate Professor, Developmental Research School
- * **Bourgeois, Louis C., III**, (1964–1993), Ph.D., Associate Professor of Modern Languages and Linguistics
- * **Braendlin, Hans Peter**, (1968–1994), Ph.D., Associate Professor of Modern Languages and Linguistics
- * **Brahoney, James P.**, (1968–1974), Ph.D., Assistant Professor of Professional and Clinical Programs
- * **Braswell, Ronald C.**, (1976–2000), D.B.A., Professor of Finance
- * **Brock, Frances R.**, (1986–1996), Ph.D., Associate in Research, Educational Services Program
- * **Brown, Amy L.**, (1975–2002), Ed.D., Associate Professor of Music
- * **Brock, Vandall Kline**, (1970–1999), Ph.D., Professor of English
- * **Brubaker, Bill Ray**, (1966–1998), Ph.D., Professor of English
- * **Brueckheimer, William R.**, (1964–1990), Ph.D., Professor of Geography
- * **Bryant, Jean G.**, (1972–2001) Ph.D., Professor of History, and Director, Women's Studies Program
- * **Burck, Harman D.**, (1960–1997) Ph.D., Professor of Human Services and Studies
- * **Burdick, Lois B.**, (1967–1999), M.L.S., Associate Director, University Libraries
- * **Burkman, Ernest, Jr.**, (1960–1990), Ed.D., Professor of Educational Research
- * **Burroway, Janet G.**, (1972–2002), M.A., Professor of English, McKenzie Professor, and Robert O. Lawton Distinguished Professor, 1995–96
- * **Burton, Elsie C.**, (1974–1992), Ph.D., Professor of Physical Education
- * **Cairns, Grace Edith**, (1948–1970), Ph.D., Professor of Philosophy and Religion
- * **Caldwell, B. Willis**, (1951–1977), Ph.D., Assistant Professor and Director of Admissions
- * **Cancelon, Elaine D.**, (1972–2001), Ph.D., Professor of Modern Languages and Linguistics
- * **Cannon, Frances C.**, (1951–1990), Ed.D., Professor of Human Services and Studies
- * **Carey, John J.**, (1960–1986), Ph.D., Professor of Religion
- * **Carleton, Frederica B.**, (1959–1970), Ed.D., Associate Professor of Home and Family Life
- * **Carroll, Benjamin H.**, (1946–1974), Associate Professor of English
- * **Carroll, Gary B.**, (1978–1997), B.A., Assistant in Research, Educational Services Program
- * **Carroll, Myrtle M.**, (1958–1974), M.A., Instructor and Associate Librarian, Library
- * **Carter, Bonnie J.**, (1943–1958), B.S., Home Improvement Specialist, Home Demonstration Extension
- * **Carter, Odessa**, (1955–1956, 1961–1977), Associate Professor, Developmental Research School
- * **Carter, Robert C.**, (1970–1987), M.S., Associate Professor of Nursing
- * **Cason, Ernest Wesley**, (1939–1967), Ph.D., Professor of Education
- * **Cassidy, Dennis S.**, (1963–1991), B.A., University Curator, Geological Sciences
- * **Chapard, Louis**, (1964–1970), M.A., Lecturer, Modern Languages and Linguistics

- * **Chapman, Kenneth R.**, (1966–1991), Ph.D., Staff Physicist and Professor of Physics
- * **Chentnik, Chester G.**, (1969–1980), D.B.A., Associate Professor of Management
- * **Choppin, Gregory R.**, (1956–2001), Ph.D., Sc.D., Professor of Chemistry, Robert O. Lawton Distinguished Professor, 1967–1968
- * **Clapp, Robert George**, (1947–1972), M.A., Professor of Information Studies
- * **Clark, Lincoln F.**, (1983–1995), Professor of Music
- * **Clarkson, Jane S.**, (1973–2000), M.L.S., Department Head and Librarian, University Libraries
- * **Clay, Louise S.**, (1969–1990), M.S., Librarian, University Libraries
- * **Cobb, Martha A.**, (1949–1967), M.A., Assistant Professor and Head Counselor
- * **Collier, Albert**, (1962–1977), B.A., Professor of Biological Science
- * **Collins, Wesley C.**, (1972–1986), M.Ed., Associate Professor of Music
- * **Conaway, Charles W.**, (1977–2002), Ph.D., Professor of Information Studies
- * **Connors, Robert M.**, (1989–1999), M.S., Visiting Research Associate, Center for the Study of Teaching and Learning
- * **Cook, Jamie G.**, (1964–1995), Ph.D., Associate Professor of Nursing
- * **Cooklin, Gerald A.**, (1981–2000), M.S., Visiting Associate in College Programs
- * **Couch, Darrell V.**, (1985–1998), M.A., Lecturer of Management Information Sciences
- * **Cox, Beverly H.**, (1959–1989), M.A., Professor of Nursing
- * **Coyne, Robert F.**, (1959–1997), Ph.D., Assistant Professor of English
- * **Craig, Sara P.**, (1964–1977), M.A., Assistant Professor, Developmental Research School
- * **Crittenden, John F.**, (1975–1987), Ph.D., Visiting Associate Professor of Childhood Education
- * **Cullar, Wendy M.**, (1966–1996), Ed.D., Program Director, Center for Educational Technology
- * **Czajkoski, Eugene H.**, (1966–1993), D.P.A., Professor of Criminology and Criminal Justice and Dean Emeritus, School of Criminology
- * **Dales, Ruth**, (1948–1976), Ph.D., Professor of Home and Family Life
- * **Dann, Elias**, (1968–1997), Ph.D., Professor of Music
- * **Dantin, Elvin J.**, (1984–1994), Ph.D., Professor of Civil and Environmental Engineering
- * **Davis, Bertram H.**, (1974–1990), Ph.D., Professor of English
- * **Davis, Robert H.**, (1957–1989), Ph.D., Professor of Physics
- * **Dawirs, Harvel N.**, (1962–1990), Ph.D., Professor of Communication
- * **Dawson, George O.**, (1967–2001), M.A.T., Professor of Curriculum and Instruction
- * **Dawson, Harvel N.**, (1962–1990)
- * **Deans, Helen**, (1948–1977), M.Ed., Professor, Developmental Research School
- * **Dearmond, Genevieve**, (1949–1959), M.A., Head Counselor
- * **Deasy, Leila Calhoun**, (1970–1986), Ph.D., Professor of Social Work
- * **de Baroncelli, Maria**, (1971–1984), Associate Professor of Dance
- * **De Busk, A. Gib**, (1957–1990), Ph.D., Professor of Biological Science
- * **Decosmo, James V.**, (1950–1978), M.S., Assistant Professor of Movement Science and Physical Education
- * **de Grummond, W.W.**, (1976–2002), Ph.D., Professor of Classics
- * **de Kloet, Siwo R.**, (1967–1996), Ph.D., Professor of Biological Science
- * **DeLaney, Charles O.**, (1976–2000), M.M., Professor of Music
- * **Denmark, Ewell Thomas, Jr.**, (1958–1989), Ph.D., Professor of Curriculum and Instruction
- * **Densmore, Virginia Nolting**, (1967–1992), M.M.E., University School Professor, Developmental Research School
- * **DePew, John N.**, (1972–2000), Ph.D., Professor of Information Studies
- * **Deshaies, Arthur E.**, (1963–1989), M.F.A., Professor of Studio Art
- * **Desloge, Edward A.**, (1959–1994), Ph.D., Professor of Physics
- * **DeTar, Delos F.**, (1960–1998), Ph.D., Professor of Chemistry, Institute of Molecular Biophysics
- * **Deterding, Floyd M.**, (1961–1979), M.S., University School Assistant Professor, Developmental Research School
- * **Devore, George W.**, (1961–1991), Ph.D., Professor of Geological Sciences
- * **Dick, Walter**, (1968–2001), Ph.D., Professor of Educational Research
- * **Dickinson, Nellie Bond**, (1935–1965), M.A., Chair and Professor of Dance, Physical Education, Recreation

- Dickson, David F.**, (1966–1999), LL. B., Ph.D., Professor of Law
- Dixon, Alice P.**, (1976–1997), M.S.L.S., Department Head and Librarian, University Libraries
- * **Dobson, Jack T.**, (1951–1979), Ph.D., Professor of Management
- * **Downing, Paul B.**, (1980–1999), Professor of Economics, and Research Associate
- Driggs, Don F.**, (1962–1986), Ph.D., Associate Professor of Psychology
- Driscoll, William J.**, (1980–1993), Ed.D., Director, Continuing Studies, Center for Professional Development and Public Service
- Dukas, Peter.** (1954–1976), M.B.A. Professor of Hotel and Restaurant Administration
- Duparc, Rovana C.**, (1945–1947, 1961–1977), Assistant Professor of Food and Nutrition
- * **Duxbury, Vivian M.**, (1950–1971), M.A., Professor and Dean Emerita of Nursing
- * **Dye, Thomas R.**, (1968–1997), Ph.D., Professor of Political Science, McKenzie Professor
- Dykes, Charles C.**, (1982–2002), M.S., Associate Professor of Interior Design
- Dyson, James W.**, (1965–1989), Ph.D., Professor of Political Science
- Earhart, Eileen M.**, (1984–1989), Ph.D., Professor and Chair of Family and Child Sciences
- Eckhart, Lewis.** (1983–1992), B.S., Assistant in Engineering, FAMU/FSU Engineering Laboratory
- * **Edgeworth, Galor M.**, (1958–1997), M.S., Associate Professor of Textiles and Consumer Sciences
- Eichenberger, Rodney.** (1990–2000), M.A., Professor of Music
- Elfner, Lloyd F.**, (1967–1992), Ph.D., Professor of Psychology
- Elliot, Paul R.**, (1971–2000), Ph.D., Professor of Biological Science
- * **Erdman, Anne Marie.** (1957–1978), Ph.D., Professor of Food and Nutrition
- Erdos, Paul.** (1958–1961, 1967–1977), D.Sc., Professor of Physics
- Evans, Joseph.** (1965–1990), M.S., Librarian, University Libraries
- * **Everett, Peter W.**, (1959–1991), Ph.D., Professor of Physical Education
- **Fallon, Richard G.**, (1957–1989), M.A., Dean Emeritus and Professor of Theatre, Robert O. Lawton Distinguished Professor, 1975–1976
- Fauls, Donald J.**, (1954–1986), B.S., Assistant Professor of Movement Science and Physical Education, and Intercollegiate Athletic Trainer
- Faust, Federic L.**, (1970–1998), Ph.D., Professor of Criminology and Criminal Justice
- * **Fernald, Edward A.**, (1960–1998), Ph.D., Professor of Geography, Associate Vice President for Research, and Director, Institute for Science and Public Affairs
- * **Fichter, Nancy Smith.** (1955–1997), Ph.D., Professor of Dance, Robert O. Lawton Distinguished Professor, 1991–1992
- Fidel, Mira.** (1968–1991), Dottore en Lettere, Associate Professor of Modern Languages and Linguistics
- Finney, Wright C.**, (1980–1991), M.S., Associate in Research, Physics
- * **Fletcher, Harold J.**, (19669–1998), Ph.D., Professor of Educational Research
- Fletcher, Neil R.**, (1961–2001), Ph.D., Professor of Physics
- * **Flory, Daisy Parker.** (1942–1984), Ph.D., Professor of Political Science and Dean of the Faculties Emerita
- * **Fordyce, Phillip R.**, (1963–1994), M.S., Professor of Educational Research
- * **Foster, Garret Richard.** (1963–1997), Ph.D., Service Professor of Educational Research
- * **Fox, Grace I.**, (1933–1971), Ph.D., Professor of Physical Education, Health and Recreation
- * **Fox, John D.**, (1959–1994), Ph.D., Professor of Physics
- * **Frank, James E.**, (1969–1997), D.P.A., Associate Professor of Urban and Regional Planning
- Free, Ojal M.**, (1965–1985), Advanced M.L.S., Instructor, Department Head and Librarian
- **Friedmann, E. Imre.** (1996–2000), Ph.D., Professor of Biological Science, Robert O. Lawton Distinguished Professor, 1991–1992
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- Gaar, Alice C.**, (1981–1995), Ph.D., Librarian, University Libraries
- **Gagne, Robert M.**, (1969–1986), Ph.D., Professor of Educational Research, Development, and Foundations, Robert O. Lawton Distinguished Professor 1982–1983
- * **Gallups, William C.**, (1966–1993), C.P.A., Ph.D., Professor of Accounting
- * **Gant, James L.**, (1970–1994), Ph.D., Associate Professor of Educational Leadership
- Gappa-Levi, Lavon.** (1990–2000), Ph.D., Director, Center for Teaching Assistant Development, Graduate Studies, and Associate Professor, Educational Leadership
- Gareau, Frederick H.**, (1963–1996), Ph.D., Professor of Political Science
- * **Garland, E. Henry.** (1960–1992), M.A., University School Professor, Developmental Research School
- George, Lawrence C.**, (1970–2001), L.L.B., Professor of Law
- * **Giddis, William J.**, (1971–1993), Ed.D., Program Director and Professor of Educational Leadership
- * **Gillies, Mary Karleen.** (1952–1971), M.A., Professor of Nursing
- * **Gleeson, Thomas A.**, (1949–1994) Ph.D., Professor of Meteorology
- Glick, Henry R.**, (1968–2002), Ph.D., Professor of Political Science
- Glick, Richard E.**, (1959–1993), Ph.D., Professor of Chemistry and Chemical Engineering
- Glotzbach, Robert.** (1950–1984), Ed.D., Professor of Music
- Gombosi, Marilyn Purcell.** (1968–1992), M.A., Professor of Music
- Good, Ronald G.**, (1968–1987), Ph.D., Professor of Curriculum and Instruction
- * **Goodner, Dwight B.**, (1949–1978), Ph.D., Professor of Mathematics and Computer Science
- Goodson, Nona Maughan.** (1947–1973), M.A., Assistant Professor of Home and Family Life
- Gordon, Earl Logan.** (1968–1989), M.Ed., Instructor of Sociology, and Program Director, Horizons Unlimited
- * **Gottschalk, Shimon S.**, (1972–1998), Ph.D., Professor of Social Work
- Gould, Leroy C.**, (1981–2002), Ph.D., Professor of Criminology and Criminal Justice
- Graddy, Avanel B.**, (1970–1988), M.S., Librarian, University Libraries
- * **Grant, Sydney R.**, (1969–1994), Ed.D., Professor of Educational Foundations and Policy Studies
- * **Gray, Richard B.**, (1958–1986), Ph.D., Professor of Political Science
- * **Green, Virginia P.**, (1969–1995), Ph.D., Professor of Educational Theory and Practice
- * **Greene, John T.**, (1958–1976), Ph.D., Professor of Sociology
- * **Grizzle, Gloria A.**, (1978–2002), Ph.D., Professor of Public Administration and Economic Policy and Government
- * **Gruender, C. David.** (1967–1999), Ph.D., Professor of Philosophy
- * **Haas, William H.**, (1970–1996), Ph.D., Professor of Communication Disorders
- Hager, Leila Venable.** (1923–1951), M.A., Professor of Home Economics
- * **Hale, Gifford Graham.** (1956–1980), Ed.D., Professor of Educational Leadership
- Halpern, Leopold E.**, (1974–2000), Ph.D., Research Associate, Physics
- Ham, Richard E.**, (1984–1999), Ph.D., Professor of Communication Disorders
- * **Hand, Samuel E.**, (1965–1975), Ed.D., Professor of Adult Education, and Director, Continuing Education
- * **Hansen-Gandy, Sally L.**, (1974–1996), Ph.D., Associate Professor of Family and Child Sciences
- Hanson, Morgan A.**, (1964–1995), Ph.D., Professor of Statistics
- Harlan, Harriett Sheddan.** (1953–1973), M.A., Instructor of Elementary Education
- **Harper, George M.**, (1970–1990), Ph.D., Professor of English, Robert O. Lawton Distinguished Professor 1979–1980
- Harper, William C.**, (1970–1990), M.S., Professor of Studio Art, Distinguished Research Professor, 1990–1991
- * **Harris, Natholyn D.**, (1971–2001), Professor of Nutrition, Food, and Exercise Sciences
- Harrison, Thomas J.**, (1987–1999), Ph.D., Professor of Electrical and Computer Engineering, Engineering
- Harrow, Anita J.**, (1990–1995), Ph.D., Associate Professor of Educational Leadership
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- Haworth, Charles T.**, (1968–1991), Ph.D., Professor of Economics
- Haworth, Joan Gustafson.** (1969–1989), Ph.D., Associate Professor of Economics
- Haynes, Frances Field.** (1926–1962), B.L.S., Associate Professor, Reference Librarian, and Head of Public Services, Library
- * **Hazelrigg, Lawrence E.**, (1980–2002), Ph.D., Professor of Sociology
- Heard, William H.**, (1962–2000), Ph.D., Professor of Biological Science
- * **Heck, William Ross.** (1959–1993), C.P.A., Ph.D., Professor of Accounting
- * **Heerema, Nickolas.** (1951–1990), Ph.D., Professor of Mathematics
- Henderson, Robert K.**, (1993–1998), M.B.A., Assistant in Public Management, Florida Center for Public Management
- * **Hendrickson, Norejane J.**, (1967–1984), Ph.D., Professor of Family and Child Science
- * **Herz, Werner.** (1949–1994), Ph.D., Professor of Chemistry, Robert O. Lawton Distinguished Professor, 1987–1988
- Hill, Alton S.**, (1974–1993), Ph.D., Visiting Research Associate, Florida Resources and Environmental Analysis Center
- Hillman, Laura T.**, (1980–1995), M.A., Associate Professor of Music
- * **Hills, John R.**, (1966–1991), Ph.D., Professor of Educational Research
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- Hodge, Billy Joe.** (1967–2000), Ph.D., Professor of Management
- Hoetker, William J.**, (1974–1994), Ed.D., Professor of Curriculum and Instruction
- Hoffer, Thomas William.** (1972–1996), Ph.D., Professor of Communication
- * **Hoffman, Katherine B.**, (1940–1984), M.A., Professor of Chemistry
- * **Hokanson, Jack E.**, (1959–1999), Ph.D., Professor of Psychology
- Holbrook, Anthony.** (1966–1992), Ph.D., Professor of Communication Disorders
- Homann, Peter.** (1962–2000), Ph.D., Professor of Biological Science
- **Housewright, Wiley L.**, (1947–1980), Ed.D., Dean Emeritus and Professor of Music, Robert O. Lawton Distinguished Professor 1961–1962
- Howard, Jimmy D.**, (1992–2001), M.A., Research Associate, Center for Studies in Teaching and Learning
- * **Howard, Louis N.**, (1981–1995), Ph.D., Professor of Mathematics and Mechanical Engineering, McKenzie Professor, and National Academy of Sciences
- Hudson, Dale L.**, (1972–1992), M.M., M.L.S., Librarian, University Libraries
- Hudson, William A.**, (1968–1975), M.A., Assistant Professor of Vocational Education
- Hulet, Richard E.**, (1982–1989), Ed.D., Professor of Educational Leadership
- **Hunt, Kellogg W.**, (1947–1973), Ph.D., Professor of English, Robert O. Lawton Distinguished Professor 1972–1973
- * **Hunt, Mary Alice.** (1953–1995), Ph.D., Associate Dean and Professor of Information Studies
- * **Hurst, Ralph N.**, (1953–1979), M.F.A., Professor of Art Education
- * **Ingham, Roy J.**, (1965–1993), Ph.D., Associate Professor of Educational Foundations and Policy Studies
- Jackson, Norman A.**, (1979–1996), Ph.D., Academic Administrator, College of Education
- * **Jahns, Irwin R.**, (1966–1998), Ph.D., Professor of Educational Foundations and Policy Studies
- * **Jahoda, Gerald.** (1963–1991), D.L.S., Professor of Information Studies
- James, Herman G.**, (1959–1997), Ph.D., Associate Professor of Modern Languages and Linguistics
- * **Jeffrey, C. Ray.** (1970–1995), Ph.D., Professor of Criminology and Criminal Justice
- * **Johnsen, Russell H.**, (1951–1993), Ph.D., Professor of Chemistry, and Dean Emeritus, Graduate Studies
- * **Johnson, F. Craig.** (1969–1994), Ph.D., Professor of Educational Research
- * **Johnson, Ivan E.**, (1952–1980), Ed.D., Professor of Art Education and Craft Design
- Johnson, Patricia L.**, (1972–1988), Ph.D., Associate Professor of Human Services and Studies
- Johnson, Rita D.**, (1973–1983), M.S., University School Assistant Professor, Developmental Research School
- * **Johnson, Robert M.**, (1968–1996), Ph.D., Vice President for Research, Professor of Biological Science, Dean of Graduate Studies, and Research Emeritus
- * **Johnson, Roy H.**, (1961–1997), D.M., Professor of Music
- * **Jones, Billie Jo.** (1972–1989), Ph.D., Professor of Movement Science and Physical Education
- Jones, Charles O.**, (1964–1989), Ed.D., Associate Professor of Educational Leadership
- * **Jones, Gideon R.**, (1963–1993), Ed.D., Professor of Special Education
- Jones, James F.**, (1962–1991), M.A., Assistant Director, University Libraries
- * **Jones, William R.**, (1976–1998), Ph.D., Professor of Religion, and Program Director, Black Studies
- * **Kaelin, Eugene F.**, (1965–1996), Ph.D., Professor of Philosophy
- * **Kalin, Robert.** (1956–1989), Ph.D., Professor of Curriculum and Instruction

- * **Kannwischer, Nell D.**, (1943–1945, 1946–1947, 1954–1955, 1963–1964, 1968–1969, 1974–1983), Ph.D., Professor of Educational Leadership
- **Kasha, Michael**, (1951–1995), Ph.D., Professor of Chemistry, and Robert O. Lawton Distinguished Professor, 1962–1963, and National Academy of Sciences
- * **Kassouy, Margaret E.**, (1973–1987), Ph.D., Professor of Nutrition and Food Science
- * **Kennedy, Robert H.**, (1976–1996), LL.B., Professor of Law
- Kennedy, Wallace A.**, (1957–1999), Ph.D., Professor of Psychology
- Kenniston, Francis W.**, (1971–1988), M.A., Associate Professor of Studio Art
- **Kenshalo, Daniel R.**, (1950–1989), Ph.D., Professor of Psychology, Robert O. Lawton Distinguished Professor 1974–1975
- * **Kerr, John Robert**, (1971–1998), D.B.A., Professor of Marketing
- Keuchel, Edward F.**, (1970–2001), Ph.D., Professor of History
- * **Kilpatrick, Howard T.**, (1981–1991), M.S., Assistant in Meteorology, Meteorology
- King, Donald C.**, (1965–1989), Ph.D., Professor of Marketing
- King, F. J.**, (1961–1994), Ph.D., Professor of Educational Research
- * **King, Thomas R.**, (1963–1998), Ph.D., Professor of Communication
- Kinoshita, Shin'ichi**, (1964–1984), Ph.D., Professor of Mathematics
- * **Kirby, Clara L.**, (1982–1991), Ed.D., Associate Professor of Childhood Education, and Academic Administrator, Panama City Campus
- * **Kirk, Colleen J.**, (1970–1990), Ed.D., Professor of Music
- * **Kirkham, George L.**, (1971–1991), D.Crim., Associate Professor of Criminology and Criminal Justice
- * **Kirtland, Fay**, (1952–1976), M.A., Professor of Instructional Design and Personnel Development
- * **Kittles, Emma H.**, (1979–1995), Ph.D., Professor of Textiles and Consumer Sciences
- Koster, Richard M.**, (1964–2000), M.A., Visiting Scholar, College Programs
- Kraft, Richard H.P.**, (1967–1999), Ph.D., Professor of Educational Leadership
- * **Kreimer, H. Frederick**, (1962–1995), Ph.D., Professor of Mathematics
- Kromhout, Ora M.**, (1974–1992), Ph.D., Research Associate, Center for Studies in Vocational Education
- * **Kromhout, Robert A.**, (1956–1992), Ph.D., Professor of Physics
- * **Kropp, Russell P.**, (1953–1994), Ed.D., Professor of Educational Leadership, Director of Planning, College of Education, and Assistant to the Provost
- Kuehn, Virginia Rae**, (1960–2001), M.S., Librarian, University Libraries
- * **Kuehne, Theodore H.**, (1976–1993), M.A., Professor of Textiles and Consumer Sciences
- Laird, William L., Jr.**, (1960–2001), Ph.D., Professor of Economics
- Lamberth, Minnie**, (1951–1973), Assistant Professor, Developmental Research School
- LaRock, Paul A.**, (1968–1992), Ph.D., Professor of Oceanography
- Laseur, Noel E.**, (1954–2002), Ph.D., Professor of Meteorology
- * **Lastinger, Samuel Thomas**, (1953–1972), Ed.D., Professor of Counselor Education and Student Teaching Program
- * **Lathrop, Robert L.**, (1972–1999), Ph.D., Professor of Educational Research
- * **Leamon, M. Phillip**, (1968–1990), Ph.D., Professor of Curriculum and Instruction
- * **Leffler, John E.**, (1950–1989), Ph.D., Professor of Chemistry
- Leffler, Nell F.**, (1951–1952, 1965–1990), M.A., Librarian, University Libraries
- Levi, Darrell E.**, (1975–2000), Ph.D., Professor of History
- * **Linder, Bruno**, (1957–1998), Ph.D., Professor of Chemistry
- Loeb, Thomas L.**, (1971–1998), University School Assistant Professor, Developmental Research School
- Logan, Elisabeth A.**, (1985–2001), Ph.D., Associate Professor of Information Studies
- Long, Bruce E.**, (1967–1996), M.A., Associate Professor of Educational Leadership
- Long, Leighton Mike**, (1953–1977), B.S., Assistant Professor of Professional and Clinical Programs
- * **Long, William H.**, (1960–1992), Ph.D., Professor of Meteorology
- * **Lovano-Kerr, Jessie**, (1982–1998), Ph.D., Professor of Art Education
- Love, James Pasco**, (1960–1990), Ph.D., Associate Professor of Social Work
- * **Lu, John Hsiao-Tung**, (1967–1999), Ph.D., Professor of Modern Languages and Linguistics
- * **Luebke, Heinz H.**, (1968–1993), Ed.D., Professor of Educational Leadership
- Lutz, Richard T.**, (1970–1976, 1999–2000), M.A., Visiting Assistant in Research, Office of Research
- Lynn, E. Elizabeth**, (1930–1966), M.A., Associate Dean of Women and Associate Professor of Physics
- * **Mabe, Alan R.**, (1972–2002), Ph.D., Professor of Philosophy, Dean, Graduate Studies, and Associate Vice President for Program Development and Faculty Support
- * **Madsen, Grace Caroline**, (1940–1972), Ph.D., Professor of Biological Science
- * **Mancha, Vaughn**, (1952–1990), M.A., Professor of Educational Research
- **Mandelkern, Leo**, (1962–1989), Ph.D., Professor of Chemistry, Robert O. Lawton Distinguished Professor 1984–1985
- Manes, Rene P.**, (1984–1995), Ph.D., Professor of Accounting
- Mann, Barbara A.**, (1988–2001), Ph.D., Associate Professor of Educational Leadership
- * **Mann, Elizabeth B.**, (1978–1989), Ph.D., Associate Professor of Information Studies
- * **Marsaglia, George**, (1985–1996), Ph.D., Professor of Statistics
- Marshall, J. Stanley**, (1958–1979), Ph.D., Professor of Research, Development and Foundations
- Martin, Sara M.**, (1960–1993), Academic Administrator, Office of Research
- Martin-Vegue, Mary Jayne**, (1942–1946, 1947–1949, 1954–1981), Assistant Professor of Childhood, Reading, and Special Education
- * **Masengill, John P.**, (1952–1979), Ed.D., Professor of Curriculum and Instruction
- Massialas, Byron G.**, (1970–1997), Ph.D., Faculty Administrator, Educational Services Program
- Matthews, Juanita B.**, (1962–1979), M.S., Assistant Professor of Political Science
- Matthews, Mary Alice D.**, (1977–1989), Ph.D., Associate Professor of Textiles and Consumer Sciences
- May, Mary C.**, (1978–2000), M.S., University School Associate Professor, Developmental Research School
- May, Rita Crowe**, (1977–2001), M.S., University School Assistant Professor, Developmental Research School
- * **McArthur, Charles Wilson**, (1956–1986), Ph.D., Professor of Mathematics
- * **McCarter, Harriette M.**, (1950–1981), M.A., University School Professor, Developmental Research School
- McClendon, Bessie R.**, (1979–1995), Ph.D., Associate Professor of Family and Child Sciences
- McCoy, Delores T.**, (1971–1996), M.A., University School Associate Professor, Developmental Research School
- McIntyre, Edward V.**, (1971–2002), Ph.D., Professor of Accounting
- McInvale, Ruth**, (1968–1987), M.Ed., Assistant Professor of Special Education
- McMullen, Blanche S.**, (1975–1977), M.Ed., Assistant Professor of Educational Management Systems and Program Administrator, Summer Sessions and Continuing Studies
- McWilliams, Ralph D.**, (1958–1998), Ph.D., Professor of Mathematics
- * **Mead, Leon Douglas**, (1957–1981), M.F.A., University School Professor, Developmental Research School
- Means, Ernest E.**, (1978–1982), Ph.D., LL.B., Research Associate, Law
- Meeter, Duane A.**, (1964–2002), Ph.D., Professor of Statistics
- * **Mellon, Edward K.**, (1966–1994), Ph.D., Associate Chair and Professor of Chemistry, Distinguished Teaching Professor, 1989–1990
- Miller, Charles E.**, (1973–2000), M.S.L.S., Librarian and Director of University Libraries
- * **Miller, Kent S.**, (1956–1990), Ph.D., Service Professor of Psychology
- Miller, Marjorie**, (1953–1963), M.S., Assistant Professor of Education
- * **Mills, Belen C.**, (1968–1997), Ed.D., Service Professor of Educational Theory and Practice
- * **Milton, George M.**, (1954–1980), M.A., Professor of Anthropology
- * **Minnick, Wayne C.**, (1959–1989), Ph.D., Professor of Communication
- * **Moore, John H.**, (1970–1993), Ph.D., Professor of History
- Moore, Martha P.**, (1943–1944, 1951–1974), M.A., Assistant Professor of Human Performance
- * **Moore, Walter L., Jr.**, (1967–1999), Th.D., Professor of Religion
- * **Moody, Mary E.**, (1937–1978), Ed.D., Professor of Art Education
- Morris, Connie**, (1985–2001), M.L.S., Librarian, University Libraries
- Morris, Harry C.**, (1961–1991), Ph.D., Professor of English
- Morse, Joshua M., III**, (1969–1998), J.D., Professor of Law
- * **Moulton, Grace C.**, (1965–1990), Ph.D., Professor of Physics
- Myers, James C.**, (1959–1989), M.S., Librarian, University Libraries
- Nall, John W.**, (1963–1991), J.D., Academic Administrator, School of Computational Science and Information Technology
- * **Nam, Charles B.**, (1964–1995), Ph.D., Professor of Sociology, Distinguished Research Professor 1993–1994, and Research Associate, Center for Population Study
- Nation, Warren B.**, (1958–1990), Ph.D., Professor of Marketing
- Neil, Marion**, (1973–1990), Ph.D., Associate Professor of Educational Leadership
- Newcomb, Ruth B.**, (1960–1975), Ph.D., Assistant Professor of Information Studies
- Newell, Barbara W.**, (1981–1996), Ph.D., Professor of Economics
- Newton, Wilfred L.**, (1964–1974), M.S., Assistant Professor of Educational Management Systems
- * **Nichols, Alice B.**, (1956–1993), Ph.D., C.P.A., Associate Professor of Accounting
- **Nichols, Eugene D.**, (1956–1989), Ph.D., Professor of Curriculum and Instruction, Robert O. Lawton Distinguished Professor 1968–1969
- * **O'Connor, Gerald G.**, (1969–1996), D.S.W., Professor of Social Work
- * **Oeltjen, Jarret C.**, (1969–2002), J.D., Professor of Law
- Ollry, Robert**, (1953–1978), M.S., M.P.H., Associate Professor of Urban and Regional Planning
- Olsen, Charles M.**, (1980–1997), M.F.A., Professor of Theatre
- Olsen, Stanley J.**, (1968–1973), Professor of Anthropology
- Oosternof, Albert C.**, (1973–2002), Ph.D., Professor of Educational Research
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- Osmond, J. Kenneth**, (1959–2000), Ph.D., Professor of Geological Sciences
- * **Ozanne, Urban B.**, (1971–1997), D.B.A., Professor of Marketing
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- * **Palmer, Monte**, (1967–1998), Ph.D., Professor of Political Science
- Paredes, J. Anthony**, (1969–1999), Ph.D., Professor of Anthropology
- Patterson, Joan A.**, (1993–1995), M.S., Associate in Research, Center for Prevention
- * **Patton, Donald J.**, (1969–1989), Ph.D., Professor of Geography
- Payne, John A.**, (1979–1999), Ph.D., Associate Professor of Communication
- * **Perry-Camp, Jane**, (1980–1996), Ph.D., Professor of Music
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- * **Phifer, L. Gregg**, (1949–1989), Ph.D., Professor of Communications
- * **Philpott, R. John**, (1968–1995), Ph.D., Associate Chair and Professor of Physics
- Piccard, Elizabeth J.**, (1968–1993), M.A., Associate Professor of Social Work
- * **Piccard, Paul J.**, (1953–1993), Ph.D., Professor of Political Science
- Pitchford, Sue**, (1924–1963), B.S., Bursar, Comptroller's Office
- * **Plendl, Hans S.**, (1956–1995), Ph.D., Professor of Physics
- * **Plescia, Joseph G.**, (1962–1998), Professor of Classics
- Pope, Anne F.**, (1939–1963), M.A., Head Counselor and Instructor
- * **Pribic, Elizabeth**, (1965–1991), Ph.D., Professor of Modern Languages and Linguistics
- Price, Lloyd L.**, (1969–1997), Ph.D., Professor of Communication Disorders
- Proschan, Frank**, (1970–1992), Ph.D., Professor of Statistics, Robert O. Lawton Distinguished Professor 1984–1985
- * **Pugh, Griffith Thompson**, (1947–1977), Ph.D., Professor of English
- * **Quincy, William J.**, (1956–1990), M.A., Associate Professor of Educational Research, and Library and Information Studies
- Ragans, Sherrill W.**, (1959–2002), M.A., Associate Vice President, Student Affairs, Vice President for Student Affairs
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- * **Rapp, Don W.**, (1966–1994), Ph.D., Professor of Family and Child Sciences
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- Remillet, June G.**, (1972–1975), M.P.H., R.N., Associate Professor of Nursing

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- Richey, Helen L.**, (1936–1962), M.A., Assistant Professor of Clothing and Textiles
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- Riedel, Robert A.**, (1991–2002), A.B., Instructor of Hospitality
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- * **Roady, Elston E.**, (1947–1983), Ph.D., Professor of Political Science
- Robertson, Etta Lucille**, (1924–1955), Professor of Music
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- Rodenberg, E. Rebecca**, (1943–1960), M.A., Assistant Professor of Music
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- Routh, Dorothy K.**, (1993–1997), M.A., Program Director, Learning Systems Institute
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- Rowell, Julia D. Fussell**, (1957–1973), M.A., Assistant Professor, Developmental Research School
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- **Rubenstein, Richard L.**, (1970–1995), Professor of Religion, Robert O. Lawton Distinguished Professor, 1977–1978
- * **Rubino, Richard G.**, (1968–1998), B.A., Professor of Urban and Regional Planning
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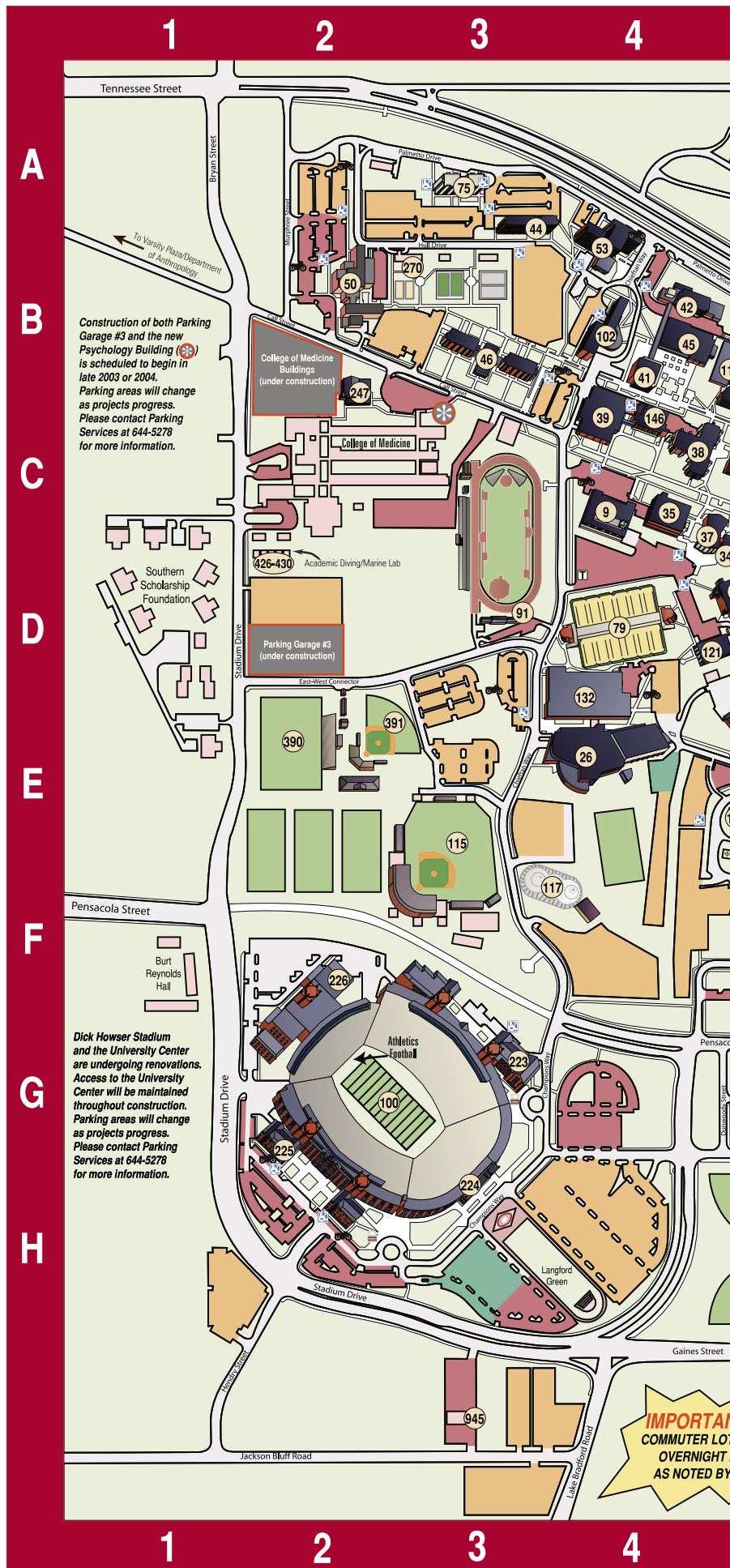
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Biomedical Research Facility	9	WOG	F-6
Black Student Union	433	BRW	F-8
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Bryan Hall	14	CAM	G-2
Campbell Stadium	100	MCH	C-5
Carothers Hall	55	CAR	C-6
Carraway Building	113	CAW	D-8
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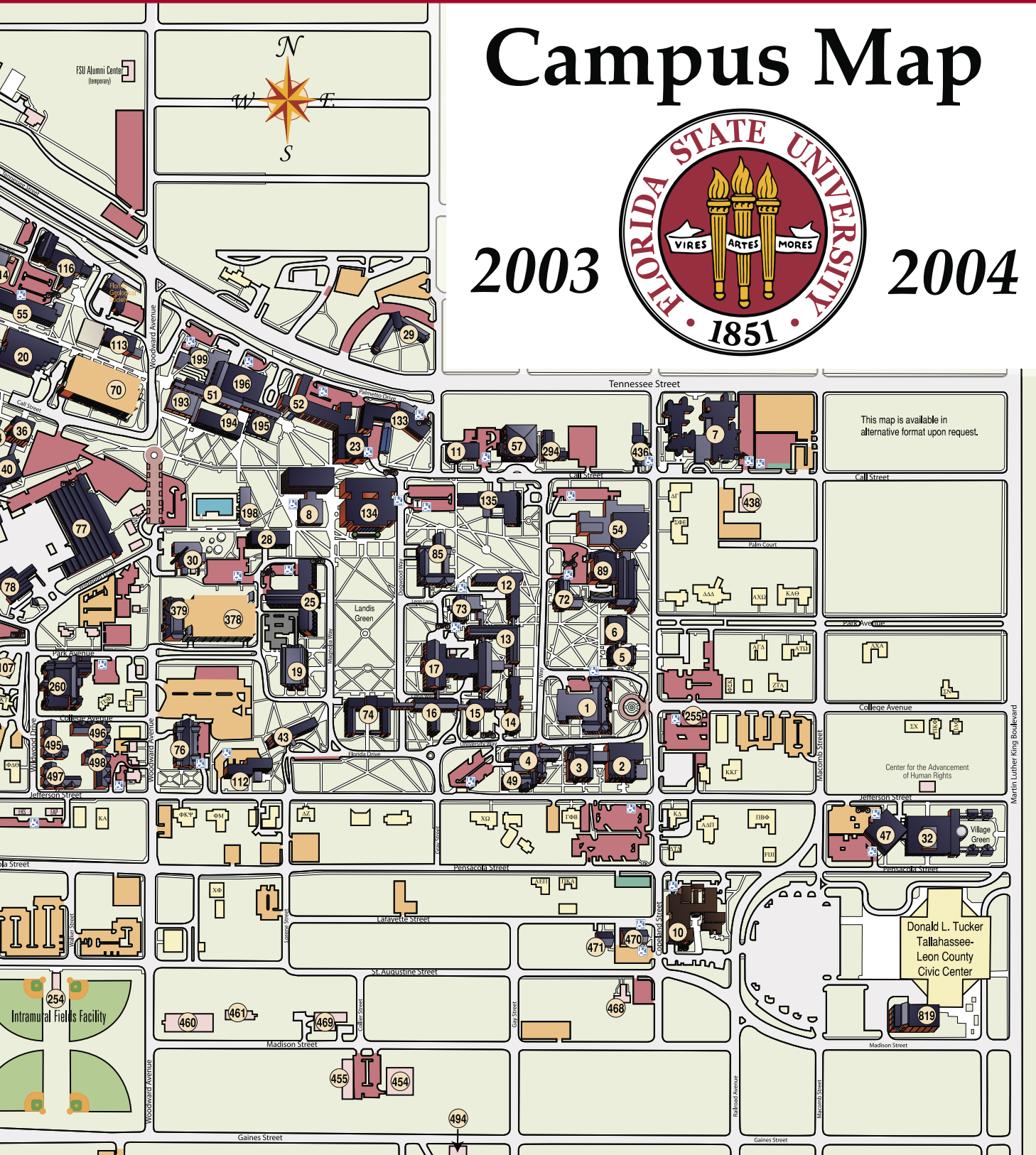


Campus Map



2003

2004



This map is available in alternative format upon request.

A
B
C
D
E
F
G
H

Parking Areas

- Students
- Faculty & Staff
- Meters & Pay Parking

Parking area designations subject to change.

The designation, capacity, and entrances to parking areas in the vicinity of construction/renovation projects will change as the projects progress. Some small parking areas and on-street parking do not appear on this map.

Updated information is available from Parking Services, C-2300 University Center, 644-5278 and at <http://vpfa.fsu.edu/parking>.

Approximate locations are indicated by these symbols

- Handicap Parking
- Motorcycle Parking
- Night Parking Permit Dispensers

NOTE!
SOME AREAS PROHIBIT PARKING SIGNAGE.

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